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# HIGH TIMES

SEPT 404

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YEAR

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IN HAWAII

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STONER GAMES

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## Tired of pH Pens and Complicated Feed Charts? Amazing Bigger Yields System Uses New pH and PPM Technologies So You Can Thrive

Have you had enough of all those mind numbing complicated feed charts, schedules, pH-PPM pens, meters, different feed rates and all kinds of other hard to figure out gadgets? It's messy. It's time-consuming. It's virtually impossible to figure out, let alone get it right. Plus, all those bottles of calibration solutions, pH-up, pH-down chemicals and the tiny holes they burn into your shirts and pants.

You've been frustrated asking: "Hey, will somebody just give me a fast, easy and simple to use bigger yield getting nutrient flowering system?"

Advanced Nutrients listened to you. The answer is yes. You'll find out how in just a minute.

But first a little about the charts, schedules and programs. Heck we invented the things to begin with, and since then all the other nutrient companies have got in line and followed like a shadow with their own feed charts and take on things. This whole nutrient thing has gotten out of hand, and a whole lot more complicated. We never intended for it to get this way. We had created an industry wide monster and had to make things right... because there had to be an easier way.

### Now You Have the Nutrient Flowering System You Asked For

When we decided to create the world's easiest to use and most powerful flowering system, it was important that we get it right. So we interviewed hundreds of growers worldwide, just like you, to find out exactly what you wanted from your hydroponics nutrients.

And guess what? It was back to work we went. We gathered up the team of 12 scientists with their army of research assistants and "worked our butts off" over the next 33 months, reworking everything from the ground up and made it purpose-built to give you a continuously bigger yield producing punch than ever before, streamlining your workload. That's why you'll certainly appreciate the Bigger Yields Flowering System. It takes all the guesswork out of you getting the biggest yields, no matter what level of gardener you are.

Think about it, a Flowering System that will give you...

- Proven Bigger Yields
- Potent, Easy Mix & Use Formulas
- New, Powerful, Flower Fattening Formulas
- Formulas That Work Together for Your Biggest Yields
- A Driving Push that Flowers Your Plants to Their True Genetic Potential
- pH-PPM Perfect - No More Balancing Your pH and PPM Ever Again!

**pH-PPM™  
PERFECT**  
No More pH & PPM  
Metering or Adjusting,  
it's All Done for You

Look, the system automatically takes care of your entire plant

### Finally Someone Who Gets It

Never being one to get in over my head, I've always kind of stuck with a base nutrients two-part and a bloom booster. My friend said I'd see bigger harvests using your System. But I was scared it would make more work for me. But when I looked at your System I realized you guys really understand what it's all about and have it all figured out. So I got two Bigger Yields Bundles (Hobbyist and Expert) and put them together like the chart says, along with the new Sensi base. Not only was mixing this stuff easier than ever, but I didn't have to pH it and I also found that the plants grew quicker and the bloom time was shorter but a larger harvest. Your system worked better than expected. Much thanks for getting it right.

Mark, from Gainesville, Florida

### From Hamburger Millionaires to Bigger-Harvest Hydroponics... How You Can Use the Time-Proven-Power of a "System" and Get Your Bigger Yields Advantage "Right Now"

Ever wondered why so many savvy people spend millions of dollars to buy a McDonald's franchise?

I realize you're probably saying to yourself right now, what the heck does this have to do with me getting bigger yields? Just hang with me for a few moments and I will explain it all.

It's because the McDonald's system is powerful, consistent, simple and so comprehensively effective that owning a McDonald's franchise is literally a license to print your own money.

And that's not all, even first-time business owners make big bucks running the McDonald's system. Because the entire well being of your business has been thought out and everything your business needs is taken care of for you. All you do is follow the system and harvest your big piles of cash.

What does all this have to do with you? The Bigger Yields Flowering System provides a rock solid complete, consistent and comprehensive system that automatically takes care of your entire plant for you at every stage of growth, from its roots to the very top of your flowers and everything in between.

Stop and imagine what it would mean to you to walk into your garden and see the kind of crops you've always known were possible and always dreamed of.

Big fat juicy harvests with towering buds, so sweet and succulent that when other growers see pictures of your crop they say "damn what the heck did you do" and when your friends and customers look at your finished product and take those long intoxicating smells... they'll have that look on their face, which says it all.

### New Breakthrough



**5 in 1** Amino Acids

Sensi Bloom and Grow-Micro-Bloom level with these extra products to give you...

**Get the Stack!™**

## Start Stacking your Bigger Yields Bundles for Even Bigger Yields

### Hobbyist Bundle



**+11.37%**  
guaranteed increase

**UNIVERSITY VERIFIED**

### Expert Grower Bundle



**+19.73%**  
guaranteed increase

**UNIVERSITY VERIFIED**

### Professional Grower Bundle



**+21.37%**  
guaranteed increase

**UNIVERSITY VERIFIED**





# Breakthrough "Brain-Dead-Simple" Flowering Grow Away Your Pens and Meters Forever!

Here's how the Bigger Yields System will continually deliver your dream harvests...

## Amped-Up Base Nutrients, Special Supplements and the Simplest Bigger Yields Flowering System Ever Devised!

You told us you wanted to spend even less time and fuss in your garden while getting still bigger harvest rewards. So we developed the System to have a bold and broader range of nutrient availability than you'll ever find with any other company's nutrients.

How did we do it? The Bigger Yields Flowering System nutrients are coated with multiple sources of unique and powerful compounds, causing your Macro and Micro nutrients to become powerful microscopic magnets attracted to your plant's roots.

These coatings give your nutrients tremendous flexibility to work at an extremely wide pH range. Opening up your plants cellular floodgates to rapidly inhale everything you feed them so they steadily make larger and fatter flowers to give you branch-bending-bounties.

### Imagine Never Again Having to Check and Adjust pH

## Simple Formula



Now contain & combine at a higher level than you even Bigger Yields Guaranteed

Let me be a bit more specific... the Bigger Yields Flowering System has a proprietary technology called pH-PPM Perfect that automatically puts your nutrient solutions pH and PPM into the "sweet spot" for optimum growth and flowering, and it's built into every growing level of the Bigger Yields Flowering System eliminating you having to fool with pesky pH meters and PPM calculations.

Here's how easy it is: if the water you use to mix your nutrients has a pH between 4.5 and 8.5 pH (and that's pretty much everyone's water) then you'll never have to balance your pH or for that matter ever add a single drop of pH up or down to your reservoir.

### And how about never again having to remember complicated measuring and application data?

Well, we heard you. All the base nutrients have been standardized at 4 ml per liter, so mixing and use is ridiculously easy.

Now get this, all the supplements have been standardized as well. You only need to mix 2 ml per liter. In fact it's this way for all the supplements used in all four of the growing levels: Hobbyist, Expert, Professional and Grand Master with each level "stacking" on top of each other, then you choose your base nutrients, and away you go, that's how the Bigger Yields Flowering System works. Incredibly simple, isn't it?

### Who Advanced Nutrients Is NOT For

Our nutrients are certainly not for everyone...only growers who want to see a difference and take their gardens to the next level, growers who want to really increase the quality of their product and get bigger yields. Advanced Nutrients is not the right fit for those people who...

## Bigger Harvests and Savings

**28.96%**  
guaranteed increase

**UNIVERSITY VERIFIED**

**Grand Master Grower Bundle**

**+37.89%**  
guaranteed increase

**UNIVERSITY VERIFIED**

• **Are Looking for Cheap Nutrients and Could Care less What Goes Into Them** – Advanced Nutrients cost more because you get more: High quality and bigger yields, but in order for us to give you that it cost us a lot of money. We use premium ingredients and run a full blown research staff of 12 PhD's, full tech support and a 100% guarantee on all products.

• **Don't Take Pride in Their Crop** – If they don't care about the quality, appearance or outcome of their harvest. They can look elsewhere. Because everything Advanced Nutrients does is all about our pride in carefully crafting products for growers that do just that: Create off-the-chart quality, pristine appearance and bigger yields.

• **Don't Have Compassion For Their Fellow Man** – If they're not willing to give a helping hand to people who are in need of their assistance or expertise. Then listen up: Advanced Nutrients gives all the time. We've donated hundreds of thousands of dollars in nutrients and equipment over the years. Obviously giving is the right thing to do.

### No Dinosaurs Allowed: Unleash Your Plant's True Genetic Potential and Get 9 Products for the Price of 4

It's now really easy for you to realize the fact that your grower friends are stuck in the "old hard way," formulas and charts that, well... qualify as dinosaurs. Not you though because you'll be using new state-of-the-art flowering technologies and five brand new hydroponics industry breakthroughs that like a world class athlete, will push your plants to their true genetic potential.

Even Better, you'll save more money with the new Bigger Yields Flowering System when you buy the all new 5 in 1 Sensi Bloom or Grow-Micro-Bloom base nutrients along with the Hobbyist Bigger Yields Bundle™. Because it's, exactly the same as getting **9 products for the price of 4**, Sensi Bloom or Grow-Micro-Bloom base nutrients now contains and combines at a higher level the award winning products H-2, F-1, Wet Betty and a special blend of Amino Acids when you buy the Hobbyist Bigger Yields Bundle which contains Big Bud, Voodoo Juice, B-52 and Overdrive, you'll also get the **Overdrive for Free**.

Actually we do mean it when we say award winning products and breakthrough technologies. Let me explain, and these are absolute facts, we're not trying to brag or anything like that (well ok...maybe just a little), and because you're probably not aware of these facts, and of course they're important ones when you're buying the Bigger Yields Flowering System.

• **Advanced Nutrients has won every major growing competition in the world, no other nutrient company has even come close to our continuing string of victories.**

• **Advanced Nutrients is the hydroponics industry's "technologies leader" responsible to date for 31 technological breakthroughs and patents that has elevated the science of hydroponics for the entire industry and made your growing easier and more profitable, including the five new pioneering technologies employed now in the Bigger Yields Flowering System.**

Anyway, back to what I was saying, here's the deal. At the Expert Grower Level you get Final Phase for Free. The Professional Grower Level gives you SensiZym for free and at the Grand Master Grower Level you'll receive your Rhino Skin absolutely free.

So go right now and ask the store owner or one of the staff to show you the Bigger Yields Flowering System and remember to ask for your Bigger Yields Bundle. As you have clearly discovered getting bigger yields and bigger savings has never been so easy. Enjoy.

To watch pH-PPM Perfect technology in action go to:  
[www.advancednutrients.com/ph-ppmperfect](http://www.advancednutrients.com/ph-ppmperfect)

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**Advanced  
Nutrients**





# BC BUD DEPOT

## SEED LIST

PRICES FOR 12-SEED PACKS:

Indoor / Outdoor



BC God Bud \$90  
The Purps \$90  
BC Sweet God \$90  
The Black \$75  
BC Hash Plant \$75  
Northern Lights \$75  
BC Mango \$75  
BC Arctic Sun \$75  
Blue Buddah \$75  
BC Sweet Tooth \$75  
BC Blueberry \$60  
BC Champagne \$60  
BC Kush \$60  
Purple Afgani \$60  
Lasqueti Haze \$60

Feminized



BC God Bud \$125.00  
Original Blueberry \$125.00  
BC Hash Plant \$125.00  
BC Sweet Dreams \$125.00  
BC Skunk #1 / NL \$125.00

Indoor

BC Chronic \$75  
UBC Chemo \$75  
BC Love Lettuce \$75  
White Widow \$75  
Merville Blueberry \$60  
BC Big Bud \$60  
BC Albino Rhino \$60  
Indoor Mix \$50

Outdoor

Sweet Island Skunk \$75  
Texada Timewarp \$75  
Saturna Sativa \$60  
Redonda Red Hair \$60  
Eggmont Outdoor \$60  
BC Purple Star \$60  
Outdoor Mix \$50

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IN OUR ONLINE FORUMS!



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Nieuwezijds Voorburgwal 86  
1012 SE Amsterdam  
The Netherlands

2) By telephone: 011-31-64-465-3362

3) Secure online shopping! Visit

[www.bcbuddepot.com](http://www.bcbuddepot.com)

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www.bcbudddepot.com



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The latest in our line of Cannabis Cup award winners!

As smoked and celebrated by Tommy Chong and his fellow aficionados, the Purps will catapult you to a realm of Purple Euphoria. With a soaring zero-burnout high and a deep purple flavour, this connoisseur's delight is a must for every garden.



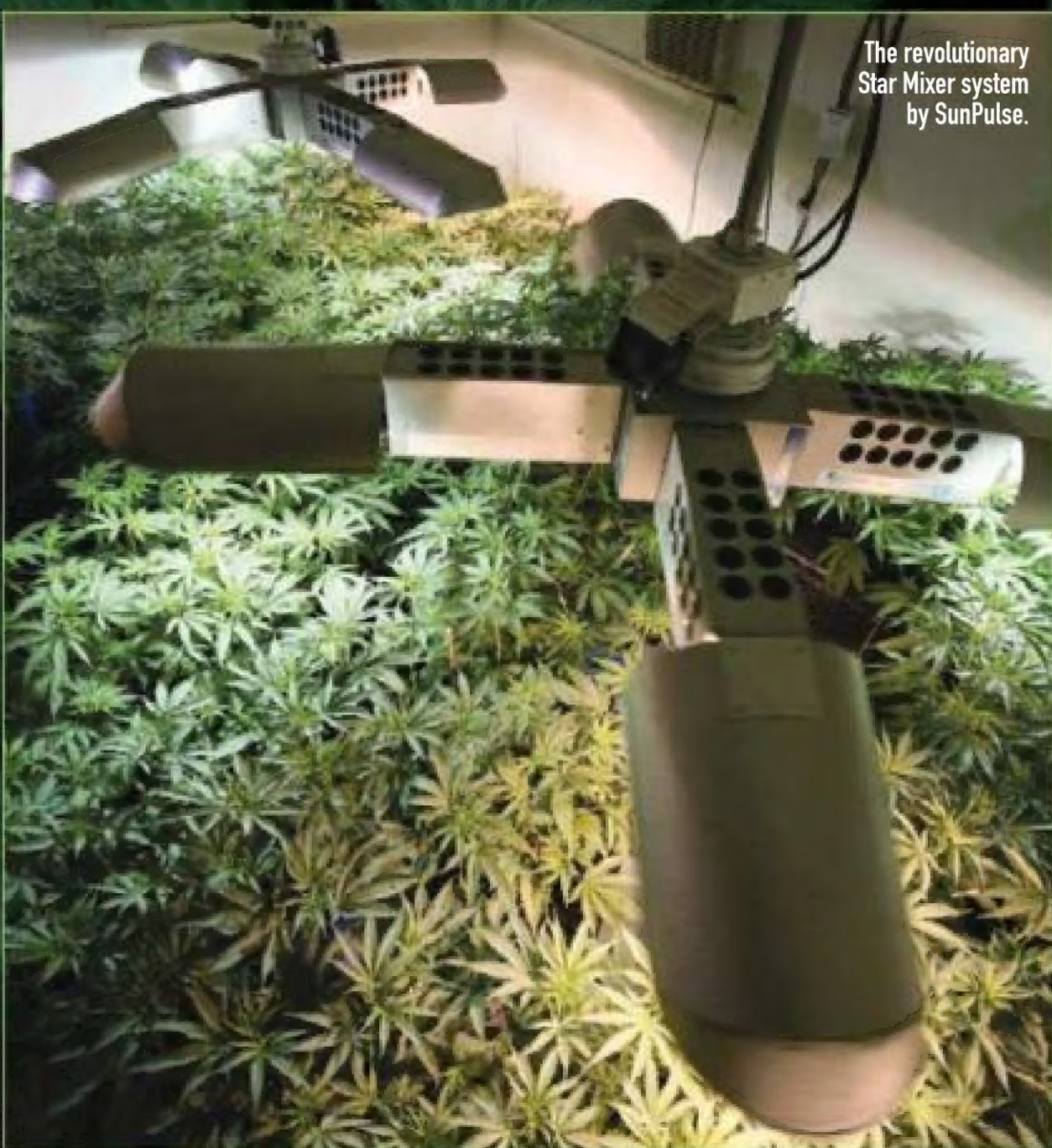
INTRODUCING:

## THE BLACK



A newly-stabilized BCBD seed release, this black beauty is an epic yielder with a pleasing flavour and a potent narcotic stone. It is fast becoming a favourite addition to gardens large and small.





The revolutionary  
Star Mixer system  
by SunPulse.

NICO ESCONDIDO

## GEAR OF THE YEAR

In another lifetime, I worked in the health-club industry. Back when I started, the American fitness boom was just hitting: Jane Fonda had stoked things with her million-selling aerobics videotapes, and the whole world wanted to boogie in leotards and leg warmers. Nobody wanted to get left behind.

The first thing people bought was the right look. Women purchased expensive, neon-colored workout duds, while the guys tended toward T-shirts and shorts. But sneakers? That's a whole different story.

The sneaker industry became the leading growth sector of the fitness industry, with gross sales of over \$4 billion—and that was 20 years ago! But you didn't just buy *sneakers*; you bought running shoes, cross-training shoes, weightlifting shoes, basketball shoes, tennis shoes—you needed a different sneaker for every waking hour of the day! All because people wanted to get in shape. Or so they said. Actually, they just wanted really hot bodies ... but I digress.

Much like "getting in shape," pot offers the same potential for new enterprises. Over the past 10 years, companies that provide glass-making materials to artists have seen a huge upswing in sales. In Oakland, CA, the downtown district is blossoming due to the existence of Oaksterdam. And we'll wager that Ziploc is secretly very thankful for the illicit pot trade.

If the shackles were off, thousands of companies would jump into the fray to serve the pot production and consumption sectors—and that means new jobs, new revenue and new economic growth.

This issue of HIGH TIMES furthers the cause of ancillary industries. "Gear of the Year" demonstrates how legalizing pot could amp our ailing economy, since people who want to grow great pot also want the best gear. And if history has taught us anything, it's this: When a business concept exhibits the potential for growth, companies and industries spread like a virus to expand and exploit the opportunity.

Here's to exploiting good pot!

*Dan Skye*

Dan Skye  
Senior Editor

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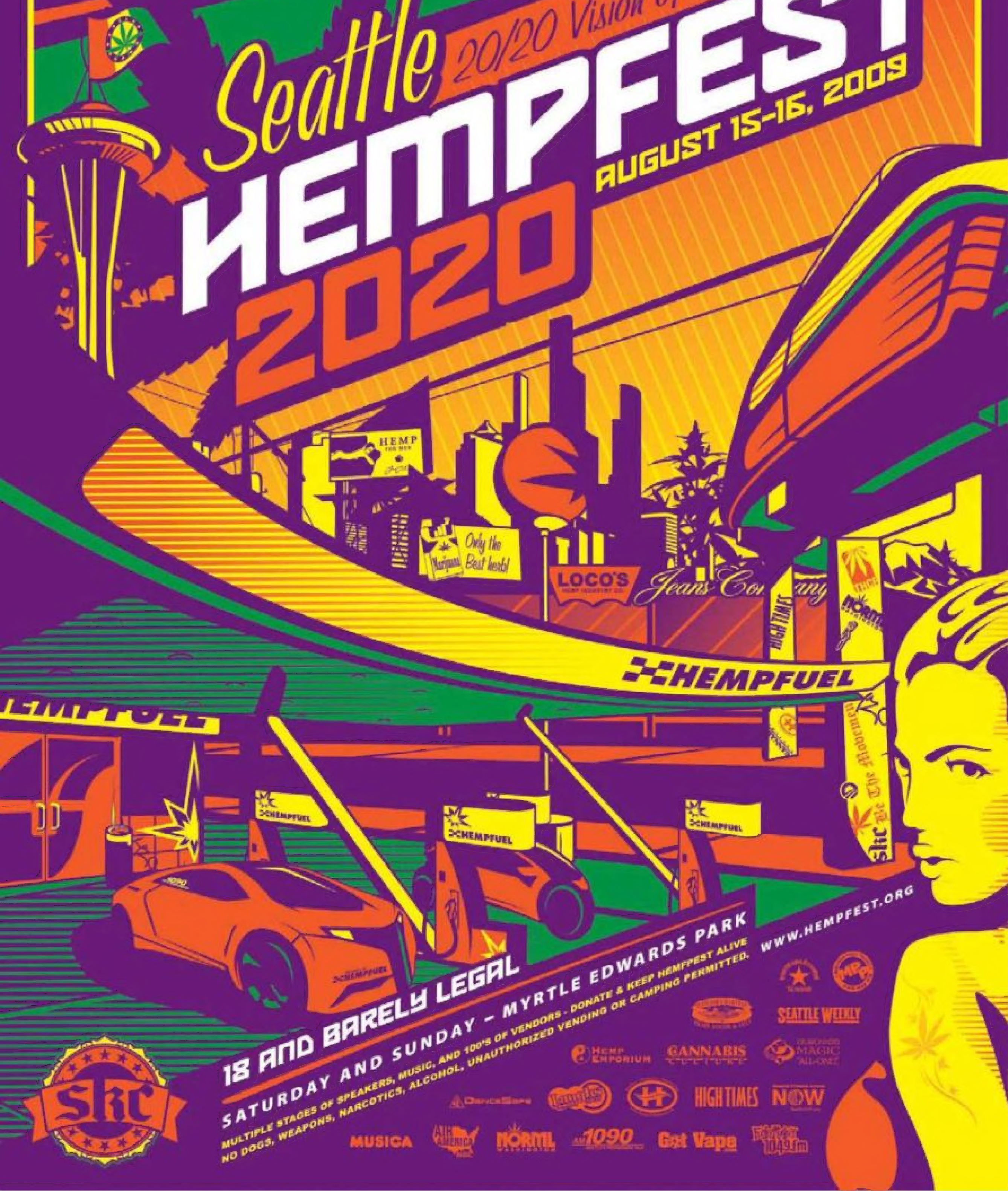
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CANNABIS CULTURE

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# HIGH TIMES



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### 34 420 PARTY!

Check out the photos from HIGH TIMES New York 420 party and meet the new Miss HIGH TIMES.

### 38 11TH ANNUAL STASH AWARDS

Our picks of the best grow gear compiled throughout the year to enable you to achieve bigger harvests while doing less work. We search out those products that result in increased yields while saving time and energy better spent enjoying life and family.

### 54 BURNING IN HAWAII

Take a trip to pot paradise and explore the lush gardens of the beautiful islands of Hawaii. Longtime resident South Bay Ray tours the gardens of four different growers and breaks down the politics of "paka-loko."

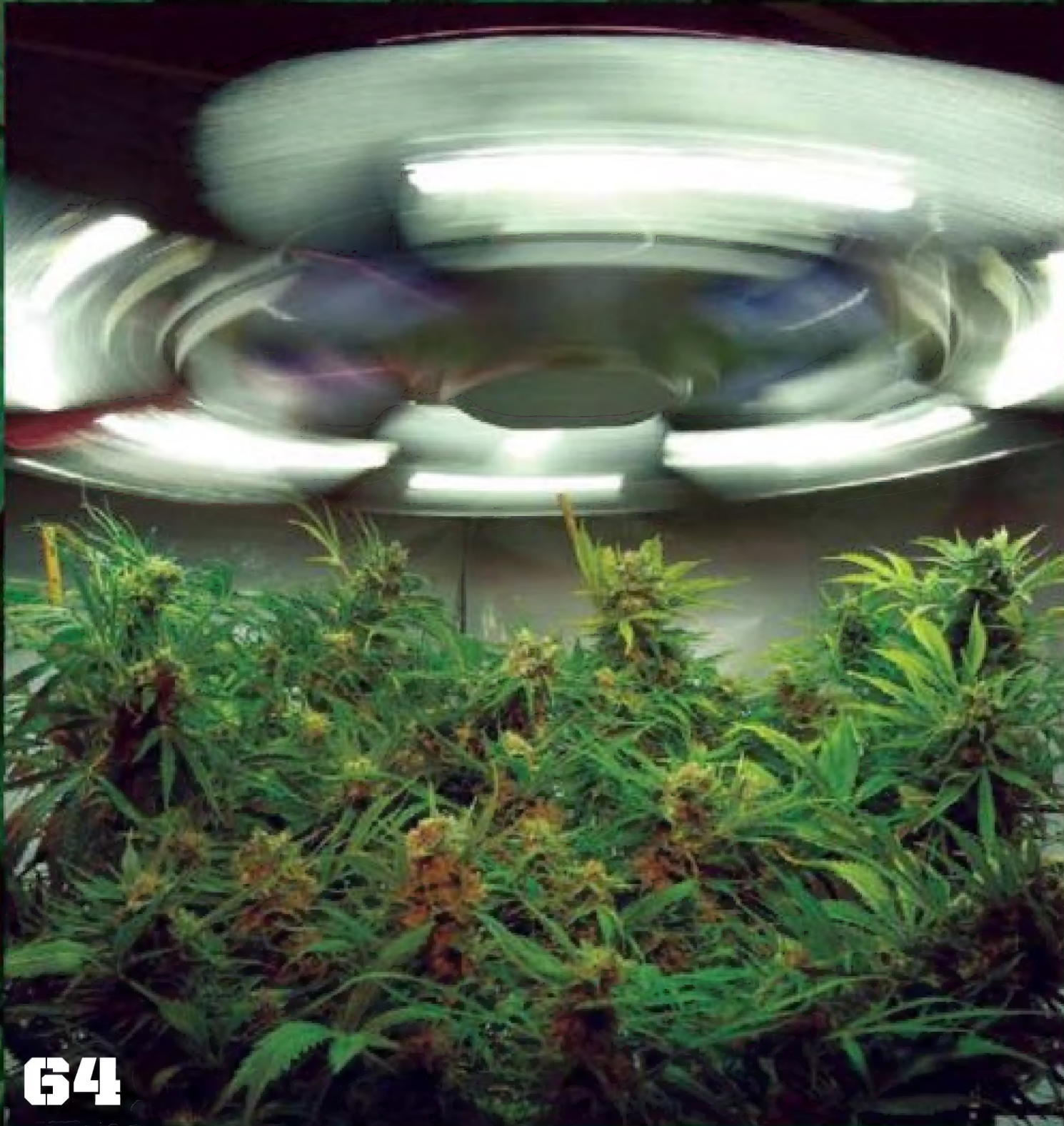
### 64 LIGHTING THE FUTURE, TODAY BY NICO ESCONDIDO

Perhaps one of the most groundbreaking cultivation pieces we've published in the last 10 years, the grand finale of our Lighting Series will change the way you think about indoor gardening for years to come. Learn the real science behind today's latest lighting technology, including the latest developments in mixed-spectrum bulbs, advanced light delivery systems and the problems with LEDs. Plus, find out why all major-brand bulbs are failing in the new electronic and digital ballasts—all but one, that is! One of our best indoor grow pieces yet, this one is a must-read.

### 72 HIGH TIMES INTERVIEW: PENN JILLETTE

BY DAN SKYE

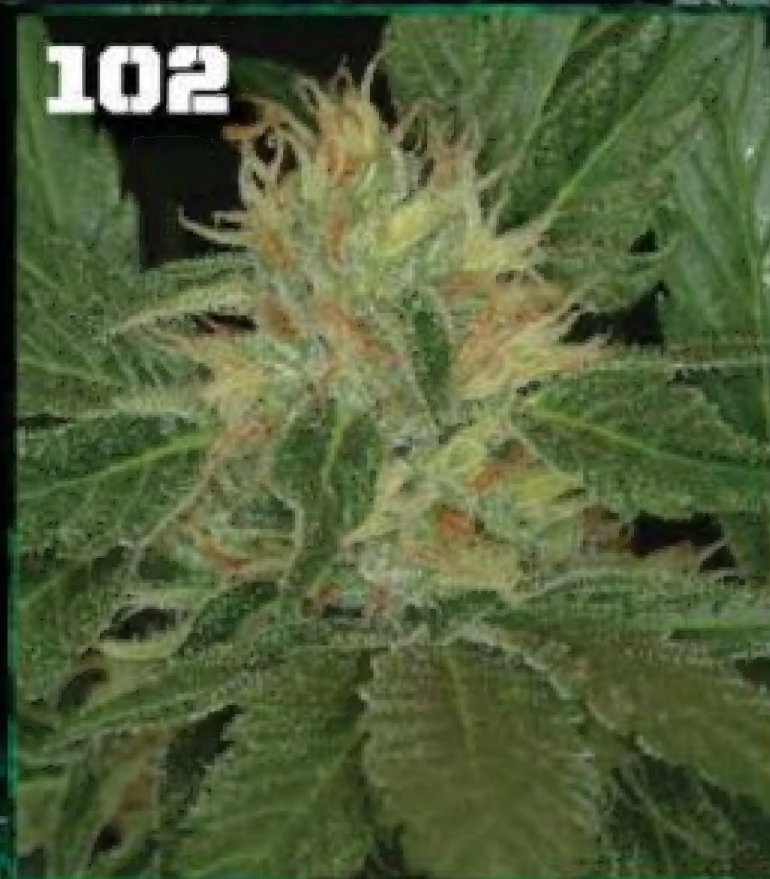
He's the vocal half of the legendary magic duo Penn & Teller, who are known for creating magical mayhem. Penn Jillette casts his own spell in this rollicking visit with the non-toking, outspoken advocate for legalization.



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## departments

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EDITED BY DAN SKYE

Rob Cantrell; Eddie Lepp gets 10; Leap Year; Is the war over?; Bad sports; University of BS; L.A. Confidential wins again; Spanish air; Dog duds; MJ musical; Showbuzz; Tobacco & pot; Lethal cannabis; Many happy returns; Nauseating pot studies; World Stoner Games II; A Spliff with Mr. Lif; Lady Punks; Agnostic Front; Reviews; Vaporella; Unsigned Band; Almost Infamous; Brain Damage Control.

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EDITED BY DANNY DANKO & NICO ESCONDIDO

Pix of the Crop; Cannabis Clinic; Munchies; Normlizer/Dr. Mitch/Freedom Fighter; Monster Glass by Dan Skye; Gear/Hot Products; Jorge's Rx and September Calendar by Jorge Cervantes.

### 110 next month

### 116 pot 40

COVER: KENT SEA STRAIN: CHEM DOG  
CENTERFOLD: FREEBIE STRAIN: HAWAIIAN PUNCH

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# Still Smoking

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## FEEDBACK

### STINKBUD REVIEW

The article by StinkBud in the June '09 issue is truly a piece of work. This unit cannot be built using the parts listed in the article and without basic construction skills. For example: 1) The fence posts needed to build the veg/bloom units aren't included in the parts list. 2) The cuts for the 1/2-inch pipe in the article are different from the cuts shown in the diagram. 3) The parts diagram box on page 52 lists eight 3/4-inch T's—but if you don't buy 14, you won't get close to putting the unit together. 4)

The two drain holes on the bottom of each grow tube are not mentioned in the drawing. 5) The text on page 52 directs the builder to drill 10 holes, but the diagram next to the instructions shows 12 or 14 holes. 6) The layout is confusing: If the veg and bloom units are the same in their design, as they appear in the article, why have two separate sets of instructions? Also, the text should have come first, with photos; the technical drawings and "step-by-step" instructions should have come at the end.

In the end, I built this thing, but if I hadn't had basic shop skills, it wouldn't have come together. (Also, with better instructions, I could've built it in half the time.) But I do love the three-stage concept that StinkBud has developed.

*The Reefer Whisperer(TM)*

*Via Internet*

**Danny Danko responds:** We regret any confusion caused by the "How to Grow a Pound Every 3 Weeks" story in the June '09 issue of the magazine. We've posted the corrected article and detailed plans online at [hightimes.com/poundeverythreeweeks](http://hightimes.com/poundeverythreeweeks).

### STRONG ODOR

I live in an apartment building and recently got a letter from management saying that I have a strong odor coming from my apartment. I'm guessing it's the weed, even though I only smoke in the evenings when I get home from work. How can I eliminate the odor? I use a bong, and smoke no more than two to three bowls a night—plus I always have the windows closed and incense burning.

*Gary*

*Via Internet*

Stop burning incense and open a window instead. Also, stuff a cardboard tube with Bounce dryer sheets and tape an X over the end. After taking a bong hit, blow the smoke through the tube; this will completely change the odor of the smoke. You should also run an air filter while you're smoking. If you still have problems, consider switching to a vaporizer—it will save you money.

### MORE PSYCHEDELICS?

I really appreciated the article on *Salvia divinorum* and the interview with Rick Doblin. Please publish regularly about entheogens/psychedelics, and bring back the price listings for visionary plants



and compounds in THMQ. Thanks to people like Terence McKenna, the Shulgins, Jonathan Ott, Alex Grey and many others, the psychedelic network is as lively as ever—and who better to cover it than HIGH TIMES?

*Andrea*

*Via Internet*

Keep your third eye peeled for more entheogenic coverage, including an interview with James Oroc, author of the newly published *Tryptamine Palace*, coming this fall.

### GEAR GUIDE ROCKS

I just picked up the Gear Guide 2009 issue and read it eagerly from cover to cover in one sitting. You could be the cannabis version of *Consumer Reports*! I found your guide to vaporizers to be invaluable. I just wish you could have done more than a one-page article on LED grow lights. With its lower heat signature and drastically decreased energy use, this technology could be the biggest thing to hit growrooms since high-intensity discharge lights. Please get us some definitive information on commercially available LED grow lights as soon as possible!

*SparkyGump*

*Via Internet*

Check out Nico Escondido's in-depth articles on LEDs in our March '08 issue and our Best of #51, Master Grower's Guide, both available from [headshop.hightimes.com](http://headshop.hightimes.com).

### LEMON SKUNK

"The Green House ([greenhouse.org](http://greenhouse.org)) won first prize at the 2008 HT Cannabis Cup with Lemon Skunk, a tasty, fragrant, citrusy strain with a Haze-based heritage."

—June '09 HIGH TIMES, Jorge's RX

I'm no J.C., whom I have tons of respect for, but Lemon Skunk did not win the Cannabis Cup—Super Lemon Haze did, which, as you stoners know, is Super Silver Haze crossed with Lemon Skunk. Big props to the Attitude Seed Bank for being the sole distributor of this high-yielding, extremely potent and tasty strain. Be on the lookout for it in your local Boulder/Denver dispensary at the end of the summer (maybe I'll send you guys some pics).

Thanks for all the knowledge over the years, and also the rockin' SXSW parties. And big props to StinkBud for "How to Grow a Pound of Pot Every 3 Weeks"; the step-by-step instructions were fuckin' awesome!

*Medicated Mike*

*Via Internet*

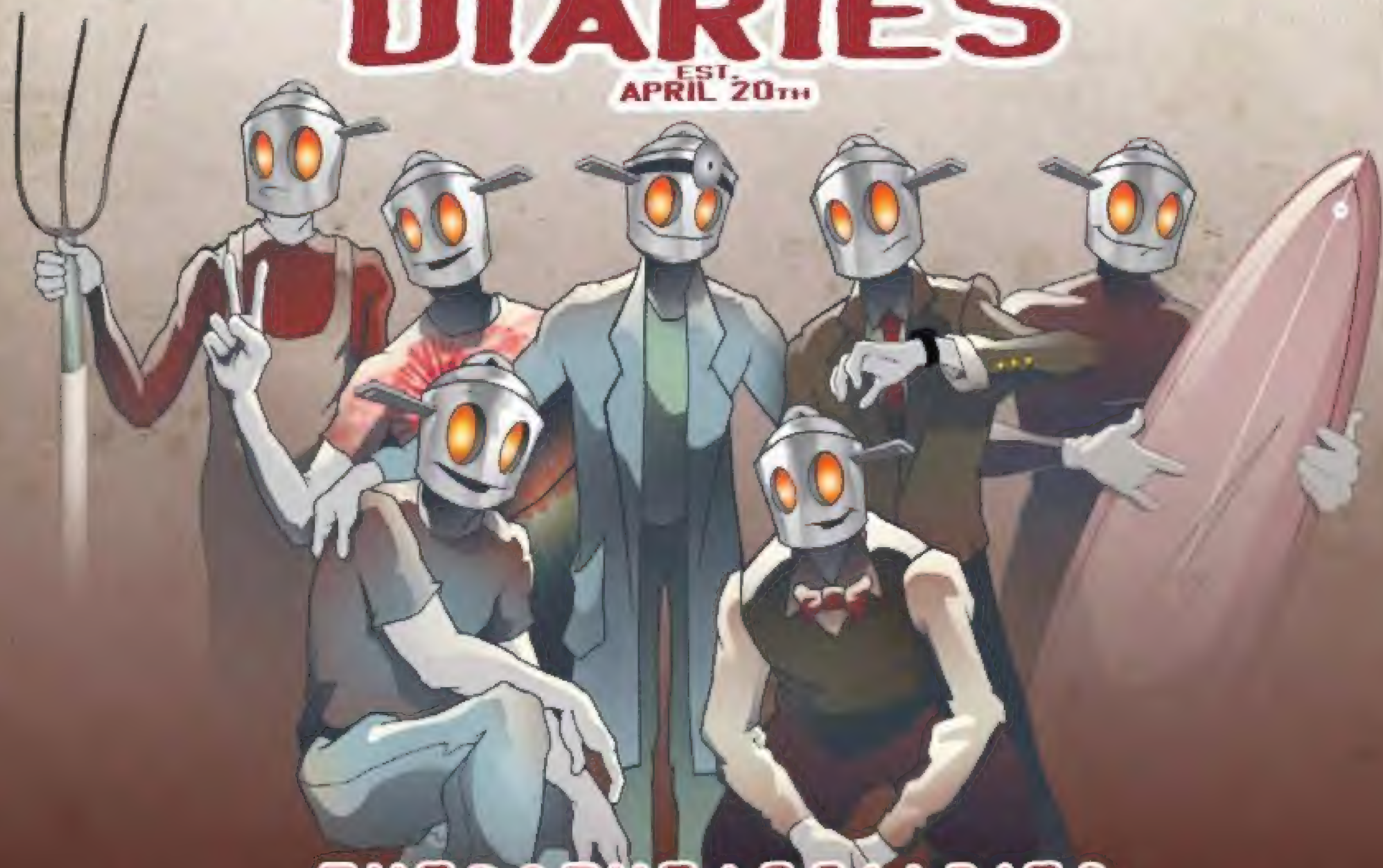
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with a hammer!

## Another title for L.A. CONFIDENTIAL

Each year, the Firestick Clique near Buffalo, NY, proves to be one of the elite groups of growers in the East. In May, the Clique held its fourth annual Battle at the Bridge Cup, a competition that was explicitly founded to underscore the superiority of US weed over Canadian. The Messiah ("Seeds Indeed," HT July '09) made America's stoner nation proud. Purple Kush and Sour Diesel provided stiff competition, but of the nine judges, five named his specimen of LA Confidential as their favorite.

This heavenly, super-sticky strain from DNA Genetics has already walked off with the top *indica* prize at the '08 Cannabis Cup, top strain at the '07 Kush Kup, and best *indica* at the '05 Breeders Cup. It also placed second for best *indica* at the '04 and '05 Cannabis Cups, and was named HIGH TIMES' "Strain of the Year" in 2006. LA Confidential is a great medicinal strain, especially for those seeking to relieve pain or eliminate insomnia. For the everyday user, the high can be described as psychedelic and energetic—with a hammer.

So what's in your growroom?

Visit [dnagenetics.com](http://dnagenetics.com).

## LEPP GETS 10 YEARS

In May, Eddie Lepp, the activist/grower who was busted in 2004 for cultivating 32,000 plants on his land in Lake County, CA, was sentenced to 10 years in prison. But US District Judge Marilyn Hall Patel seemed to disagree with the sentencing guidelines she was compelled to follow. "I think that amount of time is excessive, but it's not up to me," she told a San Francisco courtroom crowded with Lepp's supporters. The judge says she'll reconsider

the sentence if Congress changes the federal law, which calls for a mandatory 10 years in prison for people cultivating at least 1,000 plants.

Lepp, 56, had been solicited by hundreds of patients to provide cannabis for medical use, which is legal under state law. He also claims to be a Rastafarian minister who was growing cannabis for sacramental use by the 2,500 members of his church. Lepp plans to appeal the sentence as "grossly disproportionate" to the crime he committed—i.e., growing a whole bunch of plants.



Eddie Lepp,  
another Drug  
War victim.

Rob Cantrell  
smokes a return—  
literally!



## CANTRELL, COMEDY & CANNABIS

We can truthfully affirm that the comedy of Brooklyn-based standup Rob Cantrell is saturated with pot. For example, there's the bit where he analyzes why all music sounds better with lasers, or examines the dating goals of the Rolling Stones vs. the Beatles, or argues that Benjamin Franklin must have smoked weed: "Do you know how stoned you have to be even to come up with the concept of electricity when there was no electricity? ... 'I'm going to fly this kite in a thunderstorm!'"

Originally hailing from Washington, DC, Cantrell began his standup career in San Francisco after college and later brought his act to New York. After just three years of performing, he auditioned for the first season of NBC's *Last Comic Standing* and became a Top 10 finalist. He's also developed a cannabis-smoking, cult-like following, which naturally led to a tour with *The Marijuana-logues*, in which he's booked through this fall. But Cantrell is a serious activist as well, regularly hosting NORML benefits. Spend five minutes with him and you'll realize that comedy, music and pot are all very important to him. Ping-pong, too—"I love ping-pong," he says. "It's the perfect low-impact sport for the almost-athletic stoner. But he cautions: "Careful with beer-pong—I got deep into beer-pong, then I started playing tequila-tennis, which always ended with a lot of crying, cops and tight shorts."

Cantrell performed as the opening act for the late, great Mitch Hedberg on his last theater tour. He's also a contributor to HBO's *Flight of the Conchords* and is writing for Howard Stern's new TV project, out this fall on Howard TV. *Keep On the Grass*, his first comedy CD, is available this summer.

Visit [robcantrell.com](http://robcantrell.com) for details on the CD and tour dates.





In our May '08 issue, the San Francisco Bay Area rapper known as Singe sat down with us to talk about cannabis and his military experience in Iraq. Now on his third tour of duty, Singe took time out during a recent patrol to pose in front of this mural of Iraqi Republican Guard soldiers. Apparently, a local stoner had the audacity to paint a monster spliff into the tableau. Singe was more than glad to extend his lighter.

## 2009: A REAL LEAP YEAR

According to an ABC/*Washington Post* poll, support in the US for legalizing pot has never been stronger. Forty-six percent of Americans now favor legalizing small amounts of marijuana for personal use, more than double the number that existed 12 years ago. Fifty-two percent remain opposed, but that number's down from 75 percent in the late '90s and 78 percent in 1986.

In the past two decades, the poll reports, support for legalization has increased among Democrats by 29 points, and among independents by 27 points, to 49 and 53 percent, respectively. Even among Republicans, there was a 10-point gain (although that made it just 28 percent in favor).

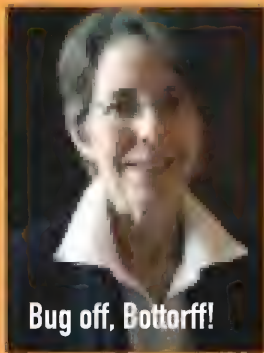
Not surprisingly, support for legalizing marijuana for personal use is nearly twice as high among young adults (57 percent of those under 30) as among seniors (30 percent), whereas middle-aged Americans are split about evenly. Nearly six in 10 liberals support the idea, while just 36 percent of conservatives agree. Politically, independent voters are the most in favor (53 to 44 percent), the Democrats divide 50–50, and the Republicans are most broadly opposed (28 to 69 percent).

The poll also found that support is highest of all among people who express no religious preference (70 percent), and lowest among white evangelical Protestants (24 percent).



## UNIVERSITY OF BULLSHIT

According to the online journal *Substance Abuse, Treatment, Prevention and Policy*, teens who smoke pot aren't trying to get high—instead, they're trying to cope with physical and mental health problems.



Bug off, Bottorff!

Now we've heard everything. *Not* trying to get high? Well, grant money's gotta get spent.

But no one can say that Dr. Joan L. Bottorff of the University of British Columbia in Vancouver and her team didn't go the extra mile to complete this study. They interviewed a total of 20—yes, 20!—adolescents from Vancouver and two rural communities in BC. This enormous sampling of Canadian youth became the basis of an international news story. For the record, 12 of the adolescents interviewed said they smoked pot to ease anxiety and stress, nine said that it helped them sleep better, six said they smoked to relieve depression, five used pot for pain relief, and three said it improved their concentration. (The numbers add up to more than 20 because several subjects used pot for more than one reason.) The participants added that the legal drugs they'd been prescribed for these problems—antidepressants, Ritalin or sleeping pills—either didn't work or had unpleasant side effects. Also, they felt that adults and medical professionals seldom took their problems seriously.

Professor Bottorff was quick to distance herself from any suggestion that she or her research team approved of these findings. "We're certainly not advocating that youth resort to marijuana to deal with their health problems," she said. She then proceeded to smear cannabis, invoking the specious, oft-repeated claims that pot interferes with learning and memory, harms the lungs, and is capable of triggering psychotic symptoms and disorders in young people. Instead, Bottorff suggested that teens try "counseling, stress management, social-skills training, anger management, study skills, pain management and sleep hygiene."

Yeah, those teen programs are everywhere. But here's a question that never was addressed: How many teens smoked pot and actually did find relief?

## WHY SOME STONERS HATE SPORTS

There's a reason ping-pong, bowling and Frisbee rule. Many stoners hate corporate sports and couldn't care less who wins anything. Here's why.

SPORT	BASIC RULES	WHY PLAYING SUCKS	WHY WATCHING ON TV IS WORSE
BASEBALL	How much time do you have? The US tax code is easier to understand.	You are required to stand real close to a hard ball whizzing by at 90+ mph. Sound like fun?	Like a volcano erupted and spewed statistics. Three hours of tedium. Nap time!
FOOTBALL	Knock that dude down!	Being able to walk the rest of your life is always an important consideration.	Broadcasters, analysts, experts, prognosticators. Does anyone ever shut up?
BASKETBALL	Back and forth, back and forth, back and forth...	Simultaneously running and bouncing a ball is harder than learning quantum physics.	Buckets of sweat, unintelligible jabber about moving screens and dribbles. The last two minutes usually last a half-hour.
HOCKEY	Skate, crash, fight, lose teeth.	Cold feet, equipment that makes you move like Quasimodo.	Try keeping track of the puck when you're high. We dare you.
SOCCER	Everybody kicks the ball. Hours later, just one guy gets to kick it at the dude wearing the weird-colored shirt.	Why can't I just pick up the ball and run instead?	The Paint Drying Channel usually has better programs.
TENNIS	You must wear white.	You have to say stupid things like "40-love."	Broadcasters talk reverently, like they're at the Vatican covering the Pope. It's just a fuzzy ball, you morons!
GOLF	Tiger Woods must always win.	Like Mark Twain said: "Golf is a good walk spoiled."	You experience a staggering epiphany: <i>You have no life!</i>



The Toxic Avenger provides high comedy.



## MUNCHIE MUSICAL

Feeling the urge for something big, green and stinky? No, it's not pot! Lloyd Kaufman's 1984 stoner cult classic, *The Toxic Avenger*—the story of a nerd gone vigilante-freak—has been made into a musical ... again. But for this one, better wear something slime-proof, because theatergoers with primo seats might find themselves covered in ooze. Unlike the original, Melvin Ferd the Third (a.k.a. Toxie) doesn't just fall into a vat of toxic waste as the result of a pot-smoking van driver, but instead gets thrown into one after his run-in with the slimeball mayor of Tromaville. This latest version is refreshingly blunt about its appeal, billing itself as "a wonderful musical based on a movie that most people watched while they were stoned." And, as an added bonus, mutant-monster fans can sing along with the show's tunes, which were composed by Bon Jovi keyboardist David Bryan. Because who else knows more about Jersey's toxic waste than a founding member of Bon Jovi? For tickets, visit [thetoxicavengermusical.com](http://thetoxicavengermusical.com).

this month in

## SHOWBUZZ

### SNOOP: STAND-UP GUY

Although Snoop Dogg can probably afford to hire the best attorneys in the galaxy to iron out any legal snags in his life, it's nice to know that the rapper can take the rap. In May, police in Norfolk, VA, acting on a tip, staked out a suspicious package that was addressed to one of Snoop's employees at the Norfolk Plaza Hotel. Upon delivery, the cops moved in to make an arrest—but Snoop stepped up and declared that the package, which contained a shipment of pot from Canada, was, in fact, his.



Pure-bred Dogg.

We salute you, O righteous rapper! But c'mon, Snoop—Canada? You gotta have better connections than that! Call us next time.



White lights.

### WHITE & THE GREEN

Comedian Ron White's new album, *Behavioral Problems*, recently debuted at No. 1 on *Billboard's* Top Comedy Albums chart. White has made a name for himself on the Blue-Collar Comedy Tour with Jeff Foxworthy, Bill Engvall and Larry the Cable Guy. We especially liked this gem from the album, about White's bust for seven-eighths of a gram: "When I have seven-eighths of a gram of marijuana, I consider myself to be out of marijuana."

### BALDWIN BLUSTER

Since he rarely works these days, actor Stephen Baldwin (*Fred Claus*, *The Usual Suspects*) has plenty of time to spew anti-pot nonsense. His recent performance on a Fox News segment hosted by Geraldo Rivera was a rerun of all the usual worn-out anti-pot clichés, primarily focused on the "what about the kids?" argument.

The usual disrespect.



First Baldwin claimed that "if you smoke three joints and tried to write your name a hundred times, you'd be all over the place." (For the record, we know of no one who would ever do this.) Then he argued that children would be smoking pot like cigarettes, causing school grades to plummet. And when Geraldo pointed out that legal *adult* use was the issue—adding that the War on Drugs has proven to be a trillion-dollar failure that has wrecked thousands of lives, and asking Baldwin if he supports a policy "that clearly doesn't work"—the confused actor responded: "Is it worth it for these people to jeopardize our health and well-being?"

Funny, that's how we feel about people like Baldwin.

## SPANISH HIGHS

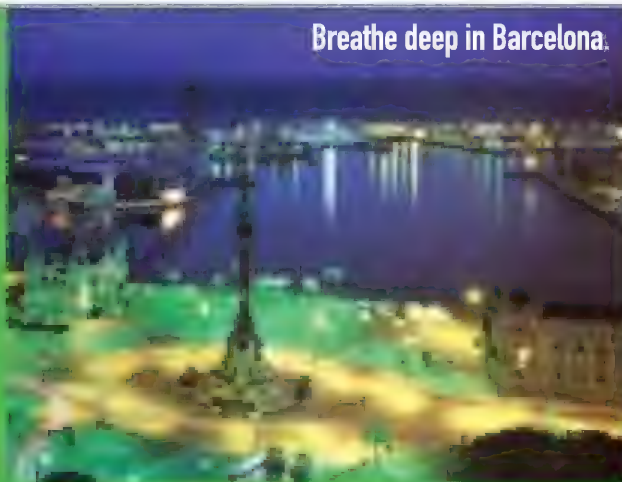
Buenos Aires, which means "good air," is actually the capital of Argentina, but maybe Spain should consider renaming its major cities. The Superior Council of Scientific Investigations, a government institute, recently disclosed that the air in Madrid and Barcelona is laced with trace amounts of cocaine, amphetamines, opiates, cannabinoids and lysergic acid, a relative of LSD. However, the council assured the public that no one was in danger of dosing themselves simply by breathing.

Damn!

"Not even if we lived for a thousand years would we consume the equivalent of a dose of cocaine by breathing this air," said one of the council's scientists.

The council was also quick to point out that the elevated levels found in Madrid may have been due to the fact that one of the air-testing sites was close to a ruined building that could have been used by drug dealers. Additionally, in both Madrid and Barcelona, air studies were carried out close to universities. Not surprisingly, Spanish air also logged higher drug concentrations on weekends.

Breathe deep in Barcelona.



## IS YOUR DOG A STONER?

Is your hound named Marley, Jerry, Snoop Dog or Chong? When you spark up a bong, does your faithful companion come running lest it miss a secondhand stone? Does your pooch sit up and beg while the Volcano bag is filling?

For pot lovers who are also dog lovers, Fab Dog has designed the Rasta collection. Get your Fido looking fly in this pot-leaf print shirt—plus you can accessorize with Rasta-color leashes and collars. Visit [fabdog.com](http://fabdog.com) for raincoats, track jackets, toys and other cool items.



## RODENTS FOR REEFER

Lab research requires a willing participant. Like a lab rat. Don't worry, nobody's gonna get their cells rearranged—except maybe you. Smoke up on this white-rat pipe created by glass artist Tammy Ball. Stay calm—you don't have to look him in the eye. Turn him over so he looks dead. The bowl is on his belly; you inhale on the tail! Check out more scary pipes on page 94.





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'G FORCE'

FEMINISED

**\$10.39**

PER SEED

THE JOINT DOCTOR

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FEMINISED

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PER SEED

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PER SEED

## ABOUT US

We offer both single seeds and full packs of ten, allowing you to create your perfect grow room. Single seeds are dispatched with a portion of the original product carton. Seeds are despatched stealthily from Great Britain and you are billed discreetly. We will replace your seeds if they do not reach you, whatever the reason!

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## POT KILLS!

**TV public-service ads are actually telling the truth: Pot is a dangerous drug—even fatal!**

**March 2009** Near the town of Liberal, OR, Clackamas County sheriff's deputies shoot and kill Hubert Henkel, 68, the boyfriend of Marjorie Crawford, 80, who is being served with an arrest warrant at her home for selling pot. Crawford is taken from the scene in an ambulance.

**July 2008** A suspected marijuana grower in California dies in a shootout with Santa Clara County sheriff's deputies after they stumble upon a pot plot during a CAMP raid in the Santa Cruz Mountains. Three growers are present when the cops arrive; the deceased is identified only as a Hispanic male in his twenties.

**October 2007** California game warden Joshua Brennan shoots and kills 39-year-old Barty Pitts, who is allegedly tending a pot garden in the Sierra Nevada foothills.

**November 2006** Acting upon bogus info from a crack dealer, narcs gun down 92-year-old Kathryn Johnston during a no-knock raid. Three baggies of pot are planted on the body of Johnston, who actually fired back. Later, the cops confess to their misdeeds and get sentenced to a few years in prison.

**March 2009** Derek Copp, a 20-year-old student and pot activist at Grand Valley State University in Michigan, is shot point-blank in his apartment by an Ottawa County sheriff's deputy serving a drug warrant. Copp survives the shooting, which damages his lung, liver and ribs. Investigators admit that Copp was unarmed, but file charges against him anyway for the "delivery or manufacture of marijuana." His case is still pending.

**July 2008** Two Labrador retrievers owned by Cheye Calvo, the mayor of Berwyn Heights, MD, are shot to death by Prince George County sheriff's deputies after they raid his home looking for a 32-pound package of pot sent to the Calvo household by a third party.

One last thing: If you think that pot was less potent back in the '70s, think again. Medical-pot pioneer Dennis Peron was shot in the thigh by San Francisco police in a 1978 raid; a second, potentially fatal bullet narrowly missed by his head.

## PATIENT GETS 12 POUNDS BACK

When Richard Daleman, a registered medical-marijuana patient who uses pot to alleviate arthritic pain, was arrested in December and charged with possessing and cultivating marijuana with intent to sell, it seemed unlikely that he'd ever be reunited with his stash. But that's exactly what happened outside of California's Tulare County Courthouse in April.

Still, prosecutors dragged their feet and Daleman got sick of it. He told them he was going to come and get it. In the end, Daleman rolled all 12 pounds of marijuana out of the building. Of course, Daleman made sure to weigh his medicine. Despite the fact that "there were about three ounces missing," He acknowledged that "they maintained it pretty good." Now that the whole ordeal—including more than three months spent in jail—was finally over, a relieved Daleman, speaking from home, assured reporters: "I'm stoned now."

## THROW UP, WASH UP, CALL THE PRESS

In April, an article on the Reuters international news service reported that heavy pot use has been associated with recurrent vomiting and compulsive bathing. The unusual story was based on a single case study published in the obscure *World Journal of Gastroenterology*, which reported that a 22-year-old male frequently suffered from severe vomiting (a.k.a. hyperemesis) after smoking weed.

Was the herb contaminated? Good question—nobody bothered to ask. The journal did report, however, that hot showers alleviated the subject's symptoms. A search of the scientific literature found a handful of similar cases, 22 in all—oddly enough, most of them people residing in South Australia. In each of the cases, the subject reported a cyclical pattern of vomiting after pot smoking; in several cases, they also reported engaging in compulsive bathing. Quitting pot appeared to alleviate most of the patients' symptoms. Hundreds of millions of people have smoked pot for thousands of years, but less than two dozen cases of "Cannabis Hyperemesis Syndrome" have ever been documented. It didn't matter to Reuters: "Given the high prevalence of chronic cannabis abuse worldwide ... clinicians need to be more attentive to the clinical features of this under-recognized condition."

If a handful of case studies proves the existence of a new clinical condition, perhaps we should recognize the equally under-recognized "Cannabis Commander-in-Chief Syndrome," in which one's pot use ultimately leads to becoming president of the United States. We can cite at least three cases off the top of our head.

## DRIVING UNDER THE INFLUENCE OF YOUTH

Here's one more shoddy study, this time courtesy of the journal *Accident Analysis & Prevention*. Apparently, investigators at the University of Montreal's psychology department interviewed 83 men, ages 17 to 49, and "observed that dangerous driving behaviors are interrelated."

The investigators continued: "Individuals scoring high on impulsivity or sensation-seeking scales demonstrated an elevated risk of driving under the influence of cannabis .... To our knowledge, this is the first study to investigate the association between driving under the influence of cannabis and a wide range of dangerous driving behaviors."

Well, not exactly. In 2007, investigators with the Public Health Program at Ontario's Lakeland University reviewed the drug and alcohol data pertaining to US drivers, ages 20 to 49, who had been involved in a fatal crash in the period from 1993 to 2003. The researchers separated these drivers into "cases" (people who had at least one potentially unsafe driving action recorded in relation to the crash) and "controls" (people who had no such driving action recorded). The investigators concluded that drivers who tested positive for cannabis had a slightly elevated risk of engaging in potentially unsafe actions compared to drug- or alcohol-free drivers. By contrast, however, researchers found that drivers with a blood-alcohol level of 0.05 percent—below the US legal limit for intoxication—were *three times* as likely to have engaged in unsafe driving activities prior to a fatal crash than individuals who'd tested positive for herb.

So why the apparent connection between pot use and risky driving behaviors? The most likely explanation: age. After all, young people between the ages of 16 and 25 are statistically most likely to use pot. This age group also possesses the least on-road driving experience and is statistically more prone to engage in high-risk driving behaviors than older drivers. In short, it's not so much driving under the influence of cannabis that poses the biggest traffic-safety risks; it's driving under the influence of youthful stupidity.

For more information on pot use and driving, check out NORML's "Cannabis and Driving: A Scientific and Rational Review," available online at [http://norml.org/index.cfm?Group\\_ID=7459](http://norml.org/index.cfm?Group_ID=7459).





# OUTWEIGHING THE COMPETITION!



[www.myspace.com/420HUYGLASS](http://www.myspace.com/420HUYGLASS)

TRIPLE 8 ARM  
ATLAS PERK





World Stoner Games contestants line up for the opening round of Bonghitting.

**Last year, Canadians were devastated after their top athletes failed miserably at the World Stoner Games. But this year, one contestant was on a mission to restore his nation's high honor.**

**Story & photos by Dan Skye**

# CANADA TAKES THE CROWN



This athlete's scalp honored Toronto and pot.



Anyone can be on the cover!

"Never, never, never believe any war will be smooth and easy, or that anyone who embarks on the strange voyage can measure the tides and hurricanes he will encounter."

So said Winston Churchill in 1930, reflecting on England's disastrous participation in the Great Boer War (1899-1902), when a ragtag army of guerrilla fighters in southern Africa fought the British army to a standstill. It was the longest and most ruinously expensive of Britain's conflicts in the century before the two world wars, as well as the first indication that the mighty British Empire might be teetering on the brink of collapse.

Canada's despair was equal last year after the first-ever World Stoner Games in Toronto, and would have been way worse had the media actually covered the event. But in order to prevent a national panic, the Canadian press chose to cover up what was truly a national scandal.

In a word, the performance of Canada's top stoner athletes might best have been described as "lackluster," "disappointing," "lame" or "really sucked"—even though that's two words.

But facts are facts. Although Americans were outnumbered 4 to 1, by the end of the Games' events, there were five contestants tied in total points—and only one of them was a Canadian. And when the finalists lit their joints in a five-way smoke-off to determine the grand-prize winner, it was an American who blazed to victory in a haze of glory, claiming the title of World's Top Stoner.

It was an unprecedented defeat, and one that few people managed to predict. Canadians who were aware of the loss were virtually devastated, literally disgusted, while figuratively shell-shocked.

Think about it: Hard-tokin' American stoners invade your homeland and outsmoke your homies. (Ugh, we don't even like the sound of that!) And worse, an American walks away with the world's

A pound each of Super Skunk and Jack Herer was reserved for WSG combat.



highest honor—on your very own turf, no less! Moreover, he gets to go to the Cannabis Cup, while you go ice fishing. And it's really, really cold on that lake.

Canadian stoners struggled to adjust to the shock. Theirs is a proud stoner nation—many studies have cited Canada as having the highest per capita number of tokers in the world, and the country's name actually means "cannabis": *Cana-* is the common root, while *-da* is a variant of *duh*, as in "Duh—you didn't know 'Canada' means 'cannabis'?" Google it. It's true.

Could Canada ever recover from this monumental failure? In May, it got its chance. This year's World Stoner Games fell on a Sunday, the day after the Toronto Freedom Rally, the annual pro-pot demonstration that draws 25,000 people. Many contestants attended the event as a final workout before competing in the World Stoner Games. Others did private workouts and prepared themselves mentally, putting on their game faces.

Those game faces were generally vacant and slack-jawed, punctuated by slightly bloodshot eyes—but their owners were all business. At a downtown location known only to the stoner athletes, 75 competitors entered the cannabis equivalent of Thunderdome. Like the gladiators of ancient Rome, or the competitive bass fishermen on the Travel Channel, they came loaded for bear.

Canada's reputation was on the line, and a pot-head named Matt from Peterborough, Ontario, chose to stand tall—which was pretty easy for Matt, since at six feet, nine inches, he towered over the field of stoners.

It turns out that Matt went into serious training after serving as an on-field assistant at the first Stoner Games. He had witnessed the shame of Canada personally and swore to restore his nation's honor by winning the grand prize: airfare and hotel accommodations at the Cannabis Cup in Amsterdam as a VIP judge. You can't get more patriotic than that.





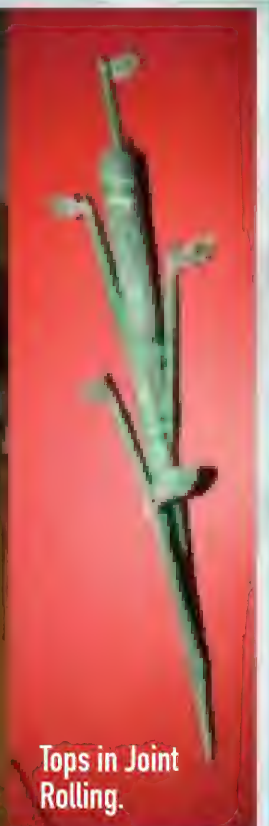
Athletes get down and dirty in the Coloring event.



The WSG winner's trophy.



Competition on the five-foot bong.



Tops in Joint Rolling.



Entrants rolled doobies of distinction.

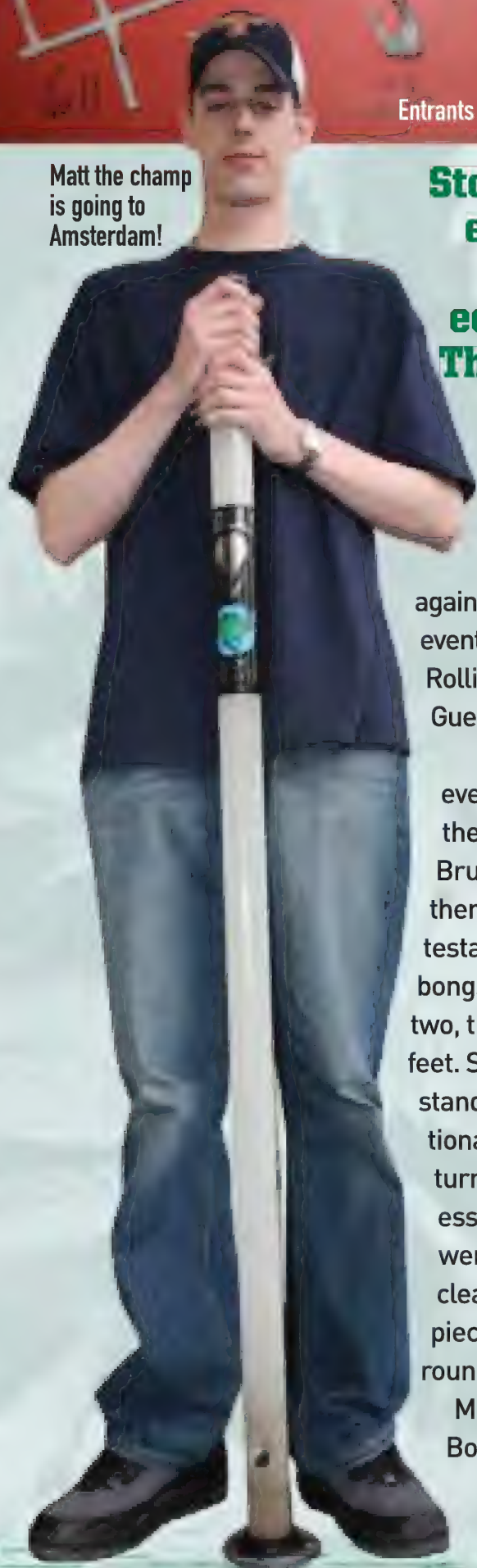


A judge tests out a triple-header jay.



An athlete offers an opponent assistance in the three-foot-bong round.

Matt the champ is going to Amsterdam!



## Stoner athletes entered the cannabis equivalent of Thunderdome.

This year's Games found the stoner athletes once again competing in five events: Bonghitting, Joint Rolling, Coloring, Gram Guess and Stoner Says.

The Bonghitting event, as usual, had all the drama of a good Bruce Willis movie (and there aren't many). Contestants wrestled with bongs in lengths of one, two, three, four and five feet. Six-foot bongs were standing by for an additional round, which turned out to be unnecessary, as contestants were hard-pressed to clear the giraffe-like pieces in the five-foot round.

Matt prevailed in Bonghitting, but some opponents griped

about his unfair advantage: At six-foot-nine, wouldn't his lungs be better suited to utilizing a long bong? Vaporella, the head referee, invoked the little-known "Head Up Your Ass" rule and allowed Matt's victory to stand. When he also took second place in Gram Guess, wherein athletes estimated the total number of grams in a container of pot, it was clear that his stoner proficiency was hardly one-dimensional.

In fact, Canadians swept all of the events, a stunning blow to the Americans talking trash. (We don't remember hearing any Americans talking trash, but if they were, they were probably pretty embarrassed.) Coloring was taken by a Canadian stoner athlete for her garden scene of marijuana butterflies and flowers cleverly designed with joints.

Another Canadian won in the Joint Rolling competition for his multi-petaled homage to plants in general, which he colored with green crayons and used over a half-ounce of pot to fill. However, given that each competitor had received an eighth of Super Skunk or Jack Herer upon registration to use in the Joint Rolling round, the referees consulted: Had he violated the rules by overstuffing his jay?

The refs decided to let the win stand. The Joint Rolling victor then disassembled his piece forthwith and absconded with the pot. It was never confirmed whether the winning entry actually was smokeable, but the joints were judged on an aesthetic basis, and he had clearly triumphed. But we do want that pot returned to us.

Stoner Says featured an exciting standoff between the two final stoner athletes capable of maintaining their attention span. It was a vicious

duel. The World Stoner Games head referee gave each of the finalists a joint and commanded: "Stoner says 'inhale.' Stoner says 'exhale.' Stoner says 'inhale.' Stoner says 'exhale.'"—thereby unhinging the competitors to the point where one finally lost her focus and inexplicably froze on a Stoner Says command. The spectators gasped, but this was mainly because they all happened to be inhaling on a joint at the same time. Weird, huh?

The winners in each event took home prizes, including robust buds of White Shark, seeds from the Ontario Seed Bank, Jorge Cervantes's famed cultivation DVDs and a variety of cool T-shirts. Stoner energy food was provided by the hemp goddess known as Puff Mama, a baker of exquisite *high-end* treats, who runs Clandestiny in Toronto, a slick, pot-themed boutique. Each competitor also received an official competitor's T-shirt, courtesy of Got Smurb? (say it fast), which are now selling on eBay for thousands of dollars. Don't freak—those are Canadian dollars, so you should be able to pick one up for under \$50 in real money.

As the World Stoner Games came to a close and the competitors trudged off the pot field of play, Matt was approached by a roving video crew and asked what he was going to do after winning the title of Top Stoner Athlete.

He shouted back: "I'm going to Disney World!"

After seven takes, he finally managed to get it right: Matt is in fact going to Amsterdam. ✨

*Special thanks to Ontario Seed Bank, Chills Canada, Puff Mama, DJ Potent, Second Nature Hydroponics, Two Kings Glass (for creating the World Stoner Games trophy) and Got Smurb?*





# THMQ

Trans-High Market Quotations (THMQ) reports pot prices by the ounce, strain and location. To submit prices, go to the THMQ link at [hightimes.com](http://hightimes.com).

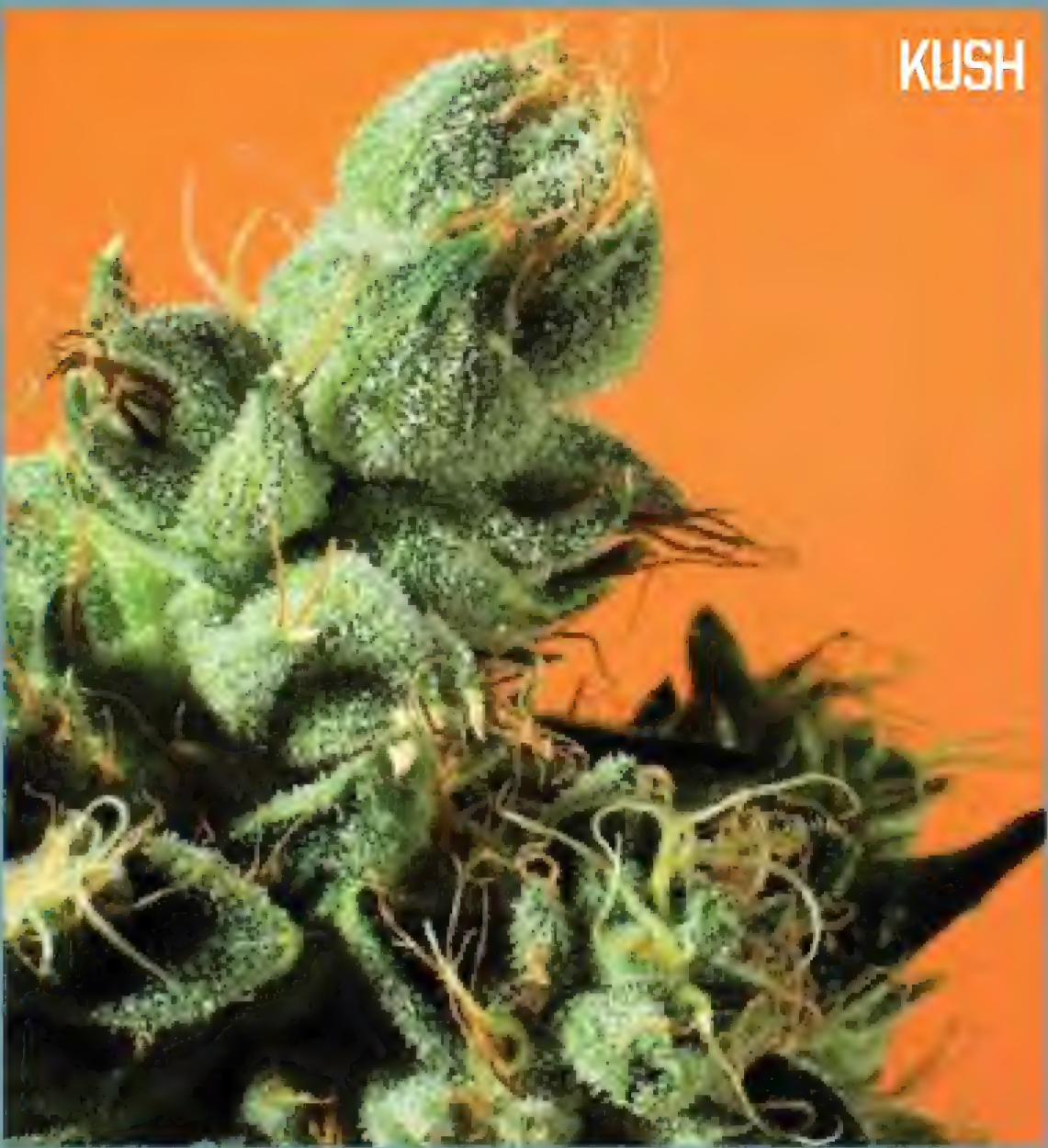
CURRENT US PRICE INDEX: **\$355** (last month: \$345; YTD: \$371)

CURRENT KIND INDEX (\$350+ PER OZ): **\$434** (\$428, \$445)

CURRENT MIDS INDEX (\$150-\$349 PER OZ): **\$272** (\$262, \$268)

CURRENT SCHWAG INDEX (\$1-\$149 PER OZ): **\$93** (\$85, \$91)

STATE	CITY	STRAIN	PRICE
ALABAMA	Montgomery	Purple Snowcap	\$600
ARIZONA	Phoenix	Purple Urkel	\$320
		Sweet Tooth	\$330
	Tucson	Tangerine Dream	\$380
ARKANSAS	Fayetteville	Trainwreck	\$400
CALIFORNIA	Bakersfield	Afghani	\$380
	Redding	Purple Urkel	\$450
	Sacramento	Master Kush	\$300
	Santa Cruz	White Widow	\$200
	Ventura	Blackberry	\$280
FLORIDA	Tallahassee	Strawberry Diesel	\$400
		Headband	\$550
		Chem Dawg	\$550
	Fort Lauderdale	AK-47	\$300
GEORGIA	Atlanta	Hindu Kush	\$475
		Trainwreck	\$450
HAWAII	Kihei	Red Diesel	\$400
ILLINOIS	Lyons	Capone	\$400
KENTUCKY	Bowling Green	OG Kush	\$400
MARYLAND	White Plains	Sour Diesel	\$450
MASSACHUSETTS	New Bedford	Grape Ape	\$450
	South Coast	NYC Diesel	\$550
MINNESOTA	Stillwater	Snow White	\$400
	Winona	Blueberry	\$350
		Headband	\$400
MONTANA	Bozeman	Trainwreck	\$350
		Northern Lights	\$350
NEVADA	Las Vegas	Super Lemon Haze	\$500
		G-13	\$400
		Sensi Star	\$350
NEW YORK	New York	Haze	\$380
		Super Lemon Haze	\$700
OHIO	Akron	OG Kush	\$450
		Bubblegum	\$400
OREGON	Bend	Hashberry	\$260
		Bubba Kush	\$300
PENNSYLVANIA	Doylestown	Purps	\$245
		Strawberry Kush	\$425
RHODE ISLAND	East Bay	Banana Urkel	\$400
TEXAS	San Antonio	Schwag	\$40
UTAH	Salt Lake City	Trainwreck	\$300
		Cali Mist	\$350
VIRGINIA	Richmond	Blue Cheese	\$380
		Woodbridge	\$400
WASHINGTON	Edmonds	Grapefruit	\$300
		Seattle	OG Kush
INTERNATIONAL (prices listed in euros or Canadian dollars unless otherwise noted)			
CANADA			
ONTARIO	Kingston	Jack Herer	C\$200
SASKATCHEWAN	Regina	God Bud	C\$290
SPAIN	Barcelona	AK-47	€250
THAILAND	Bangkok	Queen 22	\$20



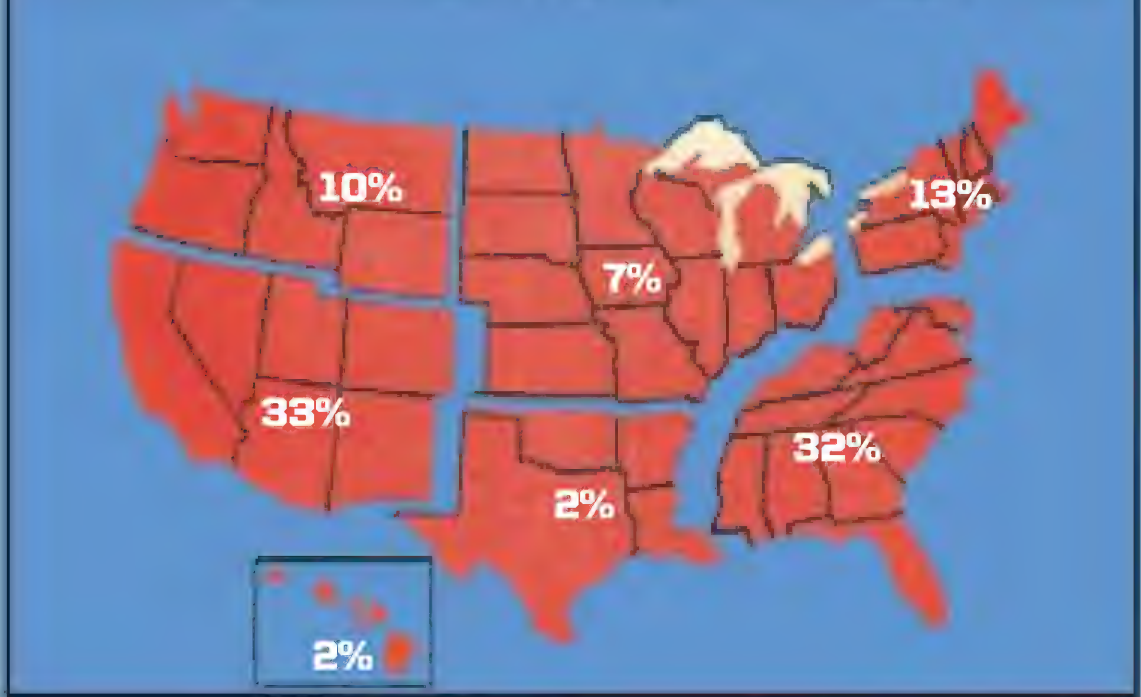
## MARKET ANALYSIS

It was a three-way race for the title as the month's most submitted strain. In the end, Kush pulled away to take the top pot spot, but Purps and Haze both deserve honorable mentions. For those scoring at home, that makes *six* first-place finishes for Kush in '09 (including last month's tie), three for Purps, one for Northern Lights and zero thus far for Diesel. The top five submitted strains in September (with average price) were Kush (\$390), Purps (\$422), Haze (\$474), Diesel (\$450) and Trainwreck (\$375).

Index Watch: All indices rebounded slightly from their previous month's average. However, US and Kind still finished below their year-to-date averages, while the Mids and Schwag indices essentially held steady.

HIGH TIMES wants to know what you're smoking. Submit your strain information, including location and price by the ounce, to [thmq@hightimes.com](mailto:thmq@hightimes.com).

## STRAIN SUBMISSIONS BY REGION - SEPTEMBER 2009



### Master Kush - \$300

Sacramento, CALIFORNIA

"Masterful weed, indeed! Plenty of good weed comes through here (this is Sac-town, after all), but this is easily among the best I've had the pleasure of enjoying. Buds are covered in crystals; even the under-sides of the bottom leaves and stems are sticky with resin. The taste is immediate and spicy, and I feel the high throughout my entire body. I love smoking this pot."

### Super Lemon Haze - \$500

Las Vegas, NEVADA

"Super Lemon Haze has definitely taken off here in Vegas. Its combo of great taste and super strength means that the day after curing, I'm completely sold out."

### Hashberry - \$260

Bend, OREGON

"The bottom seems to have dropped out of the market here. Seems to be a whole lot of buds around. Good news for the buyer!"

### Banana Urkel - \$400

East Bay, RHODE ISLAND

"This is Banana Kush x Purple Urkel. This stuff is off the hook! Huge, resin-coated green nugs highlighted in purple. The smell cannot be hidden by any means."

### Grapefruit - \$300

Edmonds, WASHINGTON

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# A SPLIFF WITH LIF

**Mr. Lif overcomes his obstacles to declare *I Heard It Today*.** By Chris Parker

Life is ruled by momentum, from physics to success. It's hard enough to get the ball rolling, let alone steer things in the right direction when hard knocks drive you askew. After recovering from misfortune and missed opportunity, rapper Mr. Lif has righted his ship and attained a full head of steam on *I Heard It Today*. While others brag about their bitches and bling, Lif's latest pulls caps back to douse them with some political science on a rabble-rousing album more in keeping with punk's early mandate than today's (t)rap stars.

The album opens with the scathing "Welcome to the World," which objects to wealth being built "on the backs of the many so the few can advance." It's followed by "What About Us," arguably the first song to cite the bank bailout, noting the billions that the banksters received while the rest of us have got "no health care, and just enough change to ride the bus." It's a powerful retort in keeping with "Obama," Lif's pre-album release, which cast a skeptical look at all the post-election euphoria.

"There's a lot of people involved in the level of corruption we just witnessed, and for me to think it's just dissipated in the blink of an eye—or that one man has the power to stop these incredibly wealthy men who really control shit from reaching their financial goals, even under his watch—is just impossible," Lif says. "Perhaps I'm being cynical about it, but I can't just embrace the American government like nothing had gone wrong."

Lif's had his own misfortunes to reverse, after being sidelined for the last three years following a fiery bus crash on the eve of 2006's *Mo' Mega* tour. Aside from physical rehab for his injuries, there was a mental reckoning to be paid as well. It took him two years to recover his muse and start finishing songs again. His first tracks were about the accident itself, until Lif got swallowed up in the political spirit of the times. "It was just a burst of pure inspiration," he says, "and probably the purest thing I've felt since I was making *Enter the Colossus*," his breakthrough 2000 EP.

The accident wiped out the tour and money that Lif needed to survive. As he recovered, the bills mounted along with his fury, fueling the new album.

"[It was] just seeing the heartlessness of the bill collectors—who don't give a *fuck* about you—and just really having to humble my whole approach to life and get on some blue-collar shit," Lif recalls. "The whole thing brought out the beast in me. I'm ready to go toe to toe with whatever it's going to take to prove that I'm a necessary factor in this game."

To that end, Lif's taken matters into his own hands, leaving indie Def Jux to release the album on his own label, Bloodbot Tactical. He's keeping his attention focused this time, however, and plans to avoid side projects like 2004's *Black Dialogue* with the Perceptionists, featuring DJ Fakts One and Akrobatik. "I always wonder to myself, 'What if in '03, I hit the follow-up to [2002's] *I Phantom*—or even in '04?'" Lif says now.

Lif went into *I Heard It Today* armed with a full sack of good herb that lasted him right through the recording and kept him properly inspired. A dedicated bong smoker, Lif still enjoys a blunt from time to time on the road, but has had to exercise some moderation to protect his voice. As a result, it's usually his homies who are holding when he's on tour—an unfortunate fact for some wrestlers he encountered several years ago in Arizona.

"I'm just sitting in the van, waiting to go to sound check, and next thing I know, Booker T walks up to me—and he's like, 'Hey, dread, do you know where to get the weed?'" Lif laughs. "A couple minutes later, another guy—I'm not sure which cat it was, but this cat was huge, like *superhuman*—he comes up to me and asks me the same question. It was hilarious. If I was in business, I could have made a little cake and smoked a little something with the WWE." ✱

**Lif went into *I Heard It Today* armed with a full sack of good herb that lasted him right through the recording and kept him properly inspired.**





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HIGH TIMES, in conjunction with Mary Jane Enterprises, brings you some of the best femme-punk bands around. By Mark Miller

# LADY PUNK RULE!



## The coathangers

"We're not punk," drummer Stephanie says straight off about her Atlanta-based band, the Coathangers. But in true punk fashion, she's told right back: *Tough shit*—for this article, your band is getting grouped with female punk bands. Guitarist Julia doesn't care; she says she's honored to be included in the pages of HIGH TIMES.

Indeed, the band's members candidly admit that pot fuels their creative drive. At least half the songs on the Coathangers' latest album, *Scramble* (Suicide Squeeze), were composed under the influence of Mary Jane; listening to tracks like "Toomerhead" or "Killdozer," it's pretty obvious. Or as Stephanie archly proclaims, "We've written songs totally stoned—pot lets you release inhibitions where you can *feel the music, man*."

The Coathangers are known for their fervent live shows, which they say are emblematic of the Atlanta party-rock scene, especially when compared to their more serious musical neighbors to the north in Athens, GA. And while their name isn't meant as an overt political statement, its allusion to a notorious method of self-induced abortion, coming from a band in the Deep South, is intended to show that "we do and say whatever we want," Stephanie assures me.

## civet

*Hell Hath No Fury* (Hell Cat) starts off fiercely enough, with the opening riff and cymbal crashing of "Alibis" and its great lyric ("Do a line—a line of alibis") announcing Civet's presence.

The most prototypically punk of the bands on display here, Civet's name derives from the SARS-spreading mammal found in Africa and Asia. Now *that's* punk—though lead singer Liza Graves said she came up with the moniker long before the SARS outbreak.

Civet is a great can't-get-'em-outta-your-head anthem band (cf. Graves's "Son of a Bitch," or bassist Jacqui Valentine's ode to "Gin and Tonic"). However, Graves does see a conflict between punk and pot. "It's the punk-rock ethic," she says. "People want to rebel, and stoner guys don't seem a part of that plan." On the other hand, she allows: "My boyfriend smokes—I don't. I'm not into bong water, but I do like edible pot."

Winning the "It's a small punk world after all" category, aforementioned Coathangers drummer Stephanie almost auditioned for Civet back in the day, but decided the band was too damn fast for her and blew off the tryout. Which is pretty punk too.



## Erase Errata

San Francisco has a storied tradition of strong weed and stronger women playing rock, and Erase Errata carries forth that legacy, producing innovative songs that have garnered their fair share of critical acclaim in the process. Percussion is central to Erase Errata's sound, which incorporates retro-surf and '50s rhythms in a cutting-edge gestalt.

On the band's latest album, *Nightlife* (Kill Rock Stars), tracks like "Hotel Suicide" demonstrate their dramatic power. The lyrics of "Tax Dollar"—"Murder, manslaughter, all funded by my tax dollar"—give voice to the resentment felt by many in the antiwar movement over their income taxes being used to perpetuate the US war machine. "Rider" is more of an exercise in personal paranoia—"Everybody has a gun, everybody has a knife"—while "Beacon" illuminates the polyrhythms proffered by drummer Bianca Sparta. "He Wants What's Mine" exhibits the haunting, poetical delivery of singer/guitarist Jenny Hoyston, who also produces the female-focused Fabulosa Fest held annually in Guerneville, CA.



## Metalux

The Metalux duo of M.V. Carbon and J. Graf are more punk in theory than in practice on *Victim of Space* (5 Rue Christine), an LP reminiscent of King Crimson's soundscaping ventures, but with an even stranger and more noticeably female sensibility. Avant-garde poetry cast over bizarre machine-like repetitions and droning audio exploitation is evident on songs like "Shipwreck" and lyrics like "I see the candy on your face ... no smoking in the lavatory." The ironic "Sunny Krakow" sounds, appropriately enough, just like a psychotically bad weekend in Poland.

Metalux is the kind of band that Yoko Ono would've started had she been born 30 years later as a Lennon fan, and not the woman who would steal him away from the Beatles.



## girl Band

It wouldn't be a proper she-punk article unless we included an unsigned band named simply Girl Band. On their eponymous self-produced album, they flash some seriously sharp riffing on songs like "Car Crash," though their sound could be heavier and fuller.

They also cover the Misfits' "London Dungeon," an ideal choice for a naughty femme band, while on their punky "tribute" to fellow Bay Area musician Sammy Hagar (called, um, "Sammy Hagar"), they tell the Red Rocker to "Kiss my ass." On "Dirty," lead singer Shelly Cardiff shows off her playful side: "I'm a dirty girl, that's for sure/I'm your mother's worst nightmare."

Oh yeah, sing it slower, baby ...



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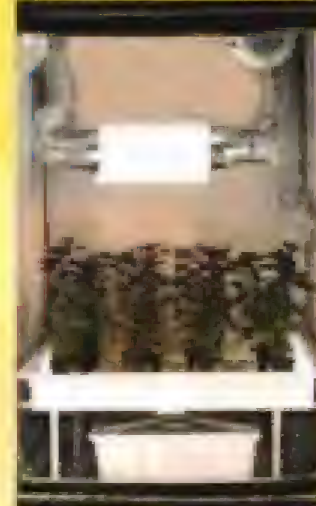


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**'When I was a kid,  
I used to junk cars on  
this block. Ride around  
all day in the car, rob  
everything I could out  
of it and set it on fire.'**  
—Vinnie Stigma

# Nothing Quiet on the Agnostic Front

**For almost three decades, AF have been keeping New York hardcore on the map. By Chris Simunek**

New York City was a riot in the '80s. A teenager could get a drink in a bar; you could buy dime bags of Skunk on the corner of Ninth Street and First Avenue; for five bucks you could see five bands at a CBGB's hardcore matinee; or, if you were really on a budget and looking for a cheap thrill, you could, for a mere 25 cents, stand in a booth on 42nd Street, stick your hand through an open slat and grope a real live titty.

Today, all that's gone, but there are a few parts of Old New York that have survived unscathed. You can still go to Wo Hop at four in the morning and eat greasy Chinese food, the Staten Island Ferry is still free and serves booze, and the mighty Agnostic Front continue to produce bone-crushing slabs of New York hardcore.

"I live a few blocks away from here," Vinnie Stigma tells me as he arrives with three-fifths of the band at a loft in Soho. "When I was a kid, I used to junk cars on this block. Ride around all day in the car, rob everything I could out of it and set it on fire. It was all factories here then."

Vinnie's musical career started down the block in Little Italy, when in the early '70s he used to play the San Gennaro festival with his cover band, Black Angus. Around '82 or so, Vinnie—along with vocalist Roger Miret—formed Agnostic Front and almost immediately started pissing people off. It's hard to imagine what a politically correct bunch of fraidy cats the new breed of "hardcore" punks were back then. You'd think Sid Vicious died for nothing. The fact that AF were skinheads really bummed a lot of people out; when they started throwing a little heavy metal into their hardcore/Oi! sound, folks were further dismayed, and the gotcha moment for the pinko types came when

they penned a song called "Public Assistance" that vented their spleen at the welfare state. They were working-class kids, and if they had an overriding message, it was *unity*: punks and skins, black and white—punk for all and all for punk.

"I had a lot of political fights," Vinnie says of those years, "good, bad or indifferent; win, lose or draw. And here I am at the same spot anyway. The world turns and you just stay the same."

Ultimately, AF is having the last laugh. Their 1984 album *Victim in Pain* is considered a classic, and their last release, 2007's *Warriors*, is pretty brutal as well. As you read this, they're touring the US, and in the fall they're heading down to South America, where they're received like gods. "It's unbelievable!" Vinnie tells me. "They got to sneak us into the venues...police escorts."

And though Vinnie didn't invent New York hardcore, he's come to personify it. His new solo album, *New York Blood*, has to be the New Yorkiest album to be released by a white person since the *Taxi Driver* soundtrack—imagine if Carmine Galante had packed it in with the mob and gotten a gig singing for GBH.

When I ask him why Agnostic Front are still a viable hardcore band after almost 30 years, Vinnie says: "We really believe in it—we're really true, we're real musicians and we're family. Me and Roger, we're the transmission and the engine, and the newer guys are the tires. Sometimes we rotate the tires."

The tires in this case are Mike Gallo (bass), Pokey Mo (drums) and Joseph James (guitar). Mike and Joe are also AF's most outspoken pot smokers. Talk turns to the dirt-brown weed they get in South America and the fat sacks of kind-

bud people throw onstage in Amsterdam.

"We smoke in our private lives," Joe says. "We don't really talk about it in music per se but it's something that the music is created by. When I write, I'm definitely inspired by smoking."

"I have like ADD; I can't sit down for a minute," Mike adds. "I get stoned, I'll sit down and I'll play, so good things come out of it, ya know?"

I ask them what they think of the crusty punk scene and Mike growls, "I think they should wake up and get a job like everyone else in the world."

"Listen," Vinnie interjects. "Go get a grenade and throw it in a bank and I'll respect you. I don't want to promote anything like that. I'm just saying, you talk the talk, you gotta walk the walk. They're fighting a war. You know what it's called? Boredom."

In the end, none of us could see the correlation between anarchy and not taking a shower.

AF now is almost like an umbrella organization to a host of punk-rock projects, including various solo bands, Stigma, Roger Miret and the Disasters, and Inhuman. Vinnie made a slasher movie you can buy on DVD called *New York Blood*, and he is still bringing punks together with the shop he and Jimmy Gestapo of Murphy's Law opened in 1998, New York Hardcore Tattoos.

"It's a place where kids could go," he says. "CB's is closed. At least you get something, New York hardcore or punk. People from all over the world come there, not even to get a tattoo—just to get a T-shirt."

Now that Mickey Mouse has become the Shah of Times Square and Alphabet City is overrun by stroller-pushing yuppies, it's nice to know there's still a punk flag planted somewhere on the Lower East Side. ★



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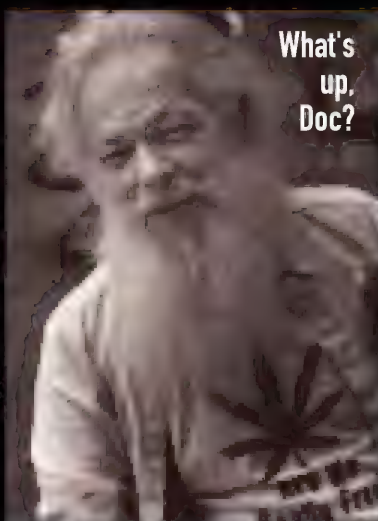
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The question "Can one man change the world?" is posed in Immy Humes's astonishing documentary of her father, H.L. "Doc" Humes. The man not only wrote two acclaimed novels, but was also an omnivorous polymath, Socratic teacher, hipster legend and cannabis visionary. It was in Paris that Doc founded the influential literary journal *Paris Review*, before moving back to New York and becoming an underground filmmaker, green architect (before the concept even existed), political activist and co-conspirator—along with folks like Terry Southern, Lord Buckley, Norman Mailer, Tim Leary and Allen Ginsberg—of the Big Apple literati.

Doc believed, sometimes with good reason, that the clandestine forces of darkness generally known as "they" were always after him. In postwar bohemian Paris, hashish was ubiquitous and legal, until—or so the American expat claimed—the US embassy complained to the French government and begat a clampdown. But Doc fought back: "I think we can establish that cannabis is a drug that can heal and liberate the human spirit."

After wig-flipping in 1965 London from an overindulgence in Leary-gifted acid, Humes went on a peripatetic quest that lasted until his death in



1992. From Rome to Ivy League America, Doc established a non-accredited tutorial for knowledge-hungry freaks. "Doc's rap was about connecting every element of the human experience into a unified vision, the end result being world peace," explains Docolyte and author Oliver Trager.

Decades before it was legally sanctioned, Doc also called cannabis "one of the most important medicines in the pharmacopoeia." He declared he could cure narcotics addiction through a combo of grass and massage, and he also wrote manifestos explaining the benefits of cannabis for a whole laundry list of conditions. Throughout his adventures, there were always clear indications of both manic depression and con-artistry, but at least Doc let his pathologies serve the cause of truth and justice. As one of his sons quipped at his memorial, "He was no ordinary asshole." And documents obtained by his daughter via Freedom of Information Act requests proved that the FBI was indeed keeping a watch on Doc from 1948 through 1978. In addition, one notable friend of the allegedly delusional paranoiac—writer Peter Matthiessen—admits on camera that he was briefly on the CIA's payroll.

Ms. Humes is a clever, skillful filmmaker: She sets up seemingly unsolvable mysteries (the whereabouts of the sole copy of Doc's film *Don Peyote*, or the truth behind his paranoia) and then cracks them open slowly, carefully, so that when the answer is finally revealed, the viewer feels a real sense of catharsis. This is effective storytelling and a gift she clearly inherited, but also one that she honed on her own in the effort to understand her father. The end result is that her audience is inspired to aggressively practice world-changing themselves—which, after all, was Doc's intention all along. —Michael Simmons

For more info, go to [dochumes.com](http://dochumes.com).

## TOURNAMENT

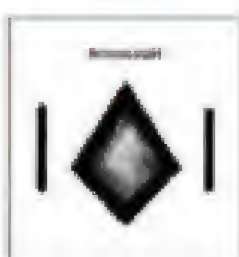
*Years Old*  
(Forcefield Records)



Tournament tore out of the gate last year with the EP *Swordswallower*, five Bl'ast-biting rippers that nodded vaguely to mathy '90s bands like Karp and Unwound as they stormed toward the pit—and, let me tell you, they made a fan out of me. I practically swallowed my eyeballs every time I saw this band live.

*Years Old*, their debut full-length on Richmond, VA's Forcefield Records, finds the Brooklyn quartet getting heavier and slower, but certainly no less destructive, as they veer toward a sound that might best be described as metallic post-punk. The complex, often brilliantly discordant guitar work is complemented by a thunderous rolling bass that occasionally surges up from the bottom to weave through the melody almost like a third guitar. The vocals are solidly in the vein of Louisville '80s legends Squirrelbait, an agonized, throat-shredding howl.

For me, the more blistering tracks like "Big Box Opportunity," "Intake Controller" and especially "Snuff News"—hot with feedback squalls and driven screaming forward almost to its knees by the relentlessly propulsive rhythm section—are the real standouts here. But fans of more modern, Melvins-weaned bands like Tombs and crust monsters Kylesa will dig the lead-heavy atmospheric tracks like the instrumental "From the Mouths" and the deeply fucked-up "Ice Castles," which cascades like an aural translation of Man Ray's *Dust Breeding*. And now that this album has liquefied my eyeballs, they'll go down so much easier at the next live show. —Polly Watson



## HEAVEN & HELL

*The Devil You Know*  
(Rhino)



When Black Sabbath reunited for concerts in the late '90s, there was hope that a second glory era for the band would follow. But with Ozzy Osbourne off chasing hack TV celebrity, his former bandmates Tony Iommi (guitar) and Geezer Butler (bass) reincarnated the second version of Sabbath with the operatic Ronnie James Dio on vocals. Completing the quartet now dubbed Heaven & Hell is Sabbath's drummer from the early-'80s era, Vinny Appice.

H&H's inaugural studio release, *The Devil You Know*, begins with "Atom & Evil," a mid-tempo reminder that nuclear holocaust still lurks around the corner, though it's not the strongest selection for an album opener. "Bible Black" starts off acoustic before crunching out, with a melody recalling Dio's days with the '70s metal super-group Rainbow.

Despite an ominous bass intro by Butler, "Double the Pain" detracts from the album's intensity, though "The Turn of the Screw" resumes the bend sinister. Alas, it seems that every disc with Dio on it is required to have a song with "rock & roll" in the title—and sure enough, there's "Rock & Roll Angel" here. "Eating the Cannibals" is the album's rawest track, with some fiery Iommi soloing, while "Follow the Tears" intrigues with its Appice march-beat intro and embittered Dio lyrics: "Come lie on a bed of nails and slumber ... my sunshine is wind, rain and thunder."

"Nowhere" is the speedy occult number that really should've led off the album, but H&H get it right with closer "Breaking into Heaven," unleashing a timeless Iommi riff to carry Dio's neo-mythic tale of a crew of fallen angels plotting to storm the pearly gates. —Mark Miller



## STANISLAV GROF, MD

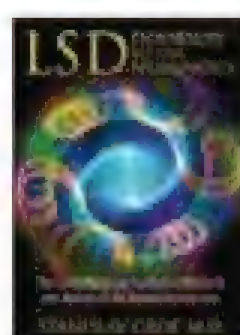
*LSD: Doorway to the Numinous*  
(Park Street Press)



The world's foremost expert on psychedelics and human psychology, Dr. Stanislav Grof has devoted his life to studying the effects of LSD and entheogens on the mind. Now, more than 30 years after its original publication, this retitled edition of Grof's 1975 classic, *Realms of the Human Unconscious*, has been updated with a new preface recounting the history of these studies.

Pursuing the mysterious state known as the "LSD trip" to discover its biochemical causes and spiritual effects has long been Grof's specialty. He views LSD as an important tool for accessing the deepest recesses of the mind, helping patients identify the source of traumatic events and resolve their inner turmoil. The discoveries made during these therapeutic LSD sessions led Grof to develop transpersonal psychology, as well as the holotropic breathwork designed to navigate the perinatal domain, where memories of one's own birth and issues stemming from this first trauma can influence a person later in life.

*LSD: Doorway to the Numinous* is peppered throughout with extensive passages detailing his patients' trips, and these accounts are fascinating for the neophyte and experienced psychonaut alike. Shamanism, near-death experiences, and the mystical (and various other) states of altered consciousness are also explored. With this book, Grof laid the groundwork for mapping the unconscious mind and understanding how to proceed with further therapeutic use. He accomplishes so much in this early book that it's an essential prerequisite for readers hoping to move on to his more recent efforts. —Elise McDonough







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BY BOBBY BLACK

# MARIJUANA ON THE MARCH

Pot protesters in New York take their message to the United Nations.

On the first Saturday of each May, tens of thousands of people gather in over 300 cities to march and show their support for marijuana legalization. But what many may not know is that this global phenomenon had its origin right here in New York City.

Back in 1967, a small but vocal political party dedicated to activism, anarchy and countercultural ideals was formed—the Youth International Party (or “Yippies” for short). Adopting a red star with a green pot leaf as their official flag, these radical hippie tricksters staged smoke-ins, pied politicians and masterminded the launch of the Alternative Press Syndicate. Among those involved with the Yippies were activists Abbie Hoffman and Jerry Rubin, poet Allen Ginsberg, satirist (and fellow HT columnist) Paul Krassner, HIGH TIMES founder Tom Forçade, and a guerrilla journalist/publisher named Dana Beal. It was Beal who, in the mid-1970s, began organizing an annual pot protest in New York—which, years later, after the advent of the Internet, evolved into the Million Marijuana March we know today.

Back in the '80s, New York's pro-pot rally was a very different animal. I fondly remember hopping the subway into the West Village with my high-school chums to gather in Washington Square Park with thousands of fellow burners, where we'd all lay out on the grass, playing our boom-boxes or acoustic guitars, and smoke joints all day. Sure, there were cops there, but they just hovered around the perimeter, only arresting dealers and jackasses. Of course, that was before Rudy Giuliani took over as mayor and instituted his zero-tolerance fatwa on pot smokers. Since then, I'd stopped going to the rally for fear of being busted. But this year, with some light finally visible at the end of the legalization tunnel, I felt compelled to go back and show my support.

It was a wet, dreary morning, and as I walked through Washington Square, I wondered whether the march might be called off due to rain. But as we gathered beside the park and things got underway, the sky cleared and the sun shone down its blessings upon our endeavors. With that, the crowd's numbers and spirits increased—despite being surrounded by cops. And there were a lot of cops: somewhere between 60 and 100 by our count, with buses, scooters, vans and SUV's (both marked and unmarked). With such overkill being devoted to watching over

Protesters march for legalization in NYC.



a small, peaceful gathering of a few hundred potheads, one had to question whether the NYPD's true purpose here wasn't merely crowd control, but outright intimidation. To put it in perspective: that same day, Toronto's Freedom Festival

(see page 18) reportedly had only 32 officers on hand to deal with crowd of nearly 30,000 attendees.

But it wasn't even the uniformed officers we had to worry about—it was the dozen or so undercover cops mingling among us, poised to pounce. Each time some poor sap would discreetly try to fire up a jay, the narcs would swoop in, drag him off to the side and bust him. And each time, my compadre Danny Danko and I would make note of the narc and his cohorts and point them out to whoever was around us. Danny even went up to one who was holding a sign and asked to take his picture. When the guy pulled the sign up to cover his face, Danny said: “Thanks ... I just wanted a picture of a cop holding a protest sign.”

Beal took the stage around noon, introducing fellow Yippies David Peel and “Pie-man” Aron Kay, as well as several other lifelong activists, who all spoke (and sang) to the crowd. Then, led by their grandstand on wheels—and accompanied by a sizeable police escort—we made our way along St. Marks to First Avenue, then north toward the United Nations building. All the way uptown, our chants and cheers were answered by the honking of car horns and the smiles and stares of people on the street. Meanwhile, protestors trying to sneak a toke were still being pulled out of our ranks by the cops, then handcuffed and led off.

The caravan ended at a small square on East 47th Street called Dag Hammarskjöld Plaza, across from the UN. There, the rally continued until almost 7 p.m. with bands and more speakers, including famed medical-marijuana patient Elvy Musika and NY NORML director Ruth Liebesman. Even here, the narcs continued to infiltrate and harass peaceful protestors, busting several more stoners. It was then that an incensed Danko had his moment at the mic.

“I have a message for all the police and prohibitionists,” he declared. “Give up now! We have won, so you might as well save the effort. We'll accept your surrender, but not your apology.”

YIP, YIP, YIP ... YIPPIE! ✨

For more go to [hightimes.com/bobbyblack](http://hightimes.com/bobbyblack)



## HIGH TIMES UNSIGNED BAND OF THE MONTH: TWIDDLE

Twiddle are a jam-heavy, progressive-rock foursome out of Vermont that has poked its head above the Green Mountains and chiseled an impressive path through New England and beyond. Along the way, the band has scooped up a following that recently demonstrated its devotion by helping Twiddle win the HIGH TIMES cyber battle of the bands for September.

Twiddle's intricate compositions and high-energy, rapid-fire playing get fans stirring down to their sweaty soles, keeping pace with every blast, every roar, every ascension into sweet jam heaven.

Over the course of the band's four-year existence, singer/guitarist Mihali “Mickey” Savoulidis, keyboardist Ryan Dempsey, drummer Brook Jordan and bassist Zdenek Gubb have developed a tight-knit, brotherly relationship, which is key to their remarkable ability to read one another onstage and carry improvised jams into far-flung, melodious dimensions. Their music flows effortlessly, teasing and tantalizing the audience with tight, majestic hooks and tasty pockets of funk.

Manager Matthew Tuscano has had a front-row seat to Twiddle's evolution for several years now. “Seeing Twiddle grow into serious performers with the ability to stir up a crowd has been amazing,” he says. “Night after night, it plays out on the faces of the audience: sheer pleasure.”

Twiddle will be headlining their first major festival this summer at the Backwoods Pondfest in Peru, NY, on September 11 and 12. For more Twiddle info, including tour dates and downloads, check out [www.hightimes.com/Twiddle](http://www.hightimes.com/Twiddle).



## Miss September

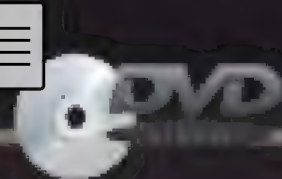
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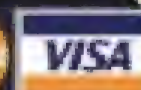
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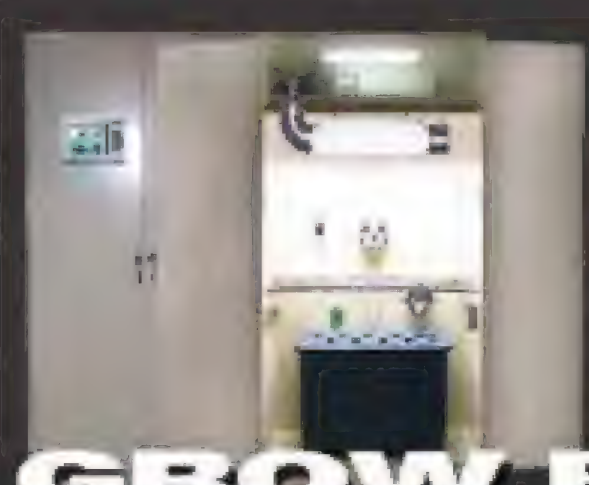
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BRAIN DAMAGE CONTROL

## Memories of Manson's Mass Murder

An eerie encounter with members of the infamous "family." By Paul Krassner

August marks the 40th anniversary of the Tate-LaBianca murders, the massacre orchestrated by Charles Manson. In the course of my research into these events, I actually received a letter from him—a few pages of gibberish about Christ and the Devil—but right in the middle, he wrote in tiny letters, "Call Squeaky," along with a phone number. That would be Lynette "Squeaky" Fromme, who is currently serving a life sentence for the attempted assassination of Gerald Ford, but who back then was acting as Manson's spokesperson. So I called, and we arranged to meet at her apartment in Los Angeles.

Squeaky and her roommates, Manson Family members Sandra Good and Nancy Pitman (a.k.a. Brenda McCann), each had the scar of an "X" that they'd gouged and burned into their forehead as a visual reminder of their commitment to Charlie.

"We've crossed ourselves out of this entire system," Squeaky explained.

They all had short hair growing back now, after having completely shaved their heads. They continued to sit on the sidewalk near the Hall of Justice every day, like a coven of faithful nuns bearing witness to Manson's martyrdom.

On an impulse, I had brought a few tabs of acid with me, and we each ingested 300 micrograms of LSD. Then we smoked a couple of joints and listened to music. They sang along with the lyrics of "The Horse With No Name," which I had always assumed was about heroin: "In the desert, you can remember your name / 'Cause there ain't no one for to give you no pain."

I was basking in the afterglow of the Moody Blues' "Om" when Sandy asked if I wanted to take a hot bath.

I felt ambivalent. An attorney once told me that he'd participated in a memorable threesome with Squeaky and Sandy, but I was also told by a reporter: "It certainly levels the high to worry about getting stabbed while fucking the Manson ladies in the bunkhouse at the Spahn Ranch—I've found that the only satisfactory position is sitting up, back to the wall, facing the door." Visions of the classic shower scene in *Psycho* flashed through my mind. The two sensed my hesitation, but it was Squeaky, not Sandy, who confronted me.



Manson family member Squeaky Fromme tried to kill President Ford.

**'She's beautiful, Paul. Just look into her eyes. Isn't she beautiful?'**

dery—snakes and dragons and devilish designs, including human hair that had been woven into the multicolored patterns.

Sandy went to take her bath, but instead of getting into the tub *with* her—assuming the invitation included that—I sat, fully dressed, on the toilet as we talked, and tried not to ogle her pert nipples.

Charles Manson was never a hippie—his *real* "family" included con artists, pimps, drug dealers, thieves, muggers, rapists and murderers. He had known only power relationships in an army of control junkies. Manson was America's Frankenstein monster, a logical product of the prison system, racist, paranoid, violent—even if hippie astrologers thought his fate had been predetermined because he was a triple Scorpio.

I eventually concluded that the brainwashed Manson Family actually served as a hit squad for a drug ring run by mobsters that Charlie had met while in prison. But as he wrote to me: "I've always ran poker games and whores and crime. I'm a crook. You make the reality in court and the press. I just ride and play the cards that were pushed on me to play. Mass killer, it's a job, what can I say." \*

*Paul Krassner not only investigated the Manson case, but has also explored many varieties of pornographic experience—purely for research purposes, of course (it's a vast industry). Thus, his latest book is titled In Praise of Indecency: Dispatches from the Valley of Porn. Visit paulkrassner.com.*

"You're afraid of me, aren't you?" she said.

"Not really," I replied. "Should I be?"

Sandy tried to reassure me: "She's *beautiful*, Paul. Just look into her eyes. Isn't she beautiful?"

Squeaky and I stared silently at each other a while—I recalled that Manson had written, "I never picked up anyone who had not already been discarded by society"—and my eyes began to tear. There were tears in Squeaky's eyes, too. She asked me to try on Charlie's vest. It felt like a scary dream to participate in this Family ceremony. The corduroy vest was a solid inch thick with embroi-



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Miss HT ladies celebrating  
the night. From right to left:  
Anastasia, McKenna, Jessica  
and Amanda.







The 2009 Miss HIGH TIMES contestants. From right to left: Vanessa, Wendylyn, Skye, Amanda, McKenna, Anastasia, Jessica and Ranya.

McKenna giving the crowd a taste of her comedic talent.

Remember him? It's the Dell Dude—Ben Curtis.

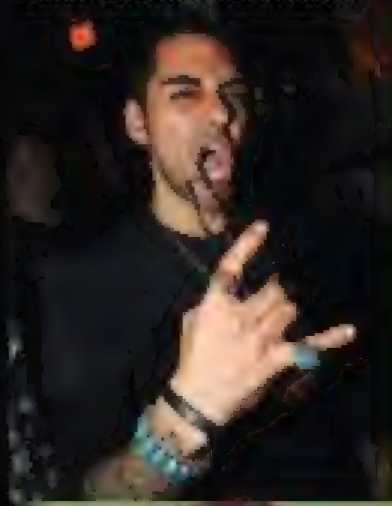


José Mangin from LatinoTV and Sirius Satellite's 'Hard Attack.'

HIGH TIMES' Danny Danko puffing down with Kareem "Biggs" Burke (left) and Damon Dash (right).



Vaporella asks Anastasia about her photography.



Forever spreading the good word of the herb, HIGH TIMES celebrated this past 4/20 with a knockout of a party in the Baked Apple. Over 800 pot-friendly patrons crowded into the smoky, sold-out venue, an underground club called Studio B in Greenpoint, Brooklyn, to light up with the HT crew, while Boston's Prospect Hill rocked the stage. Later in the evening, stoners of the five boroughs celebrated the high holiday in style, toking along with all seven of the Miss HIGH TIMES finalists as columnists Vaporella and Bobby Black hosted the first-ever New York pageant. With all the pothead partygoers feeling toasty and toasted inside the loft-like club, the April showers outside did little to dampen the high spirits: The burner blowout lasted until the wee hours of the morning, and, happily, there were absolutely no problems with either narcs or nosy neighbors. Hemp, hemp, hooray! 🌿

**HIGH TIMES** would like to thank **Nuggbrand Clothing**, **liqunder.com**, **BC Northern Lights** and **Heavy Glass** for co-sponsoring the event.



Jessica gets the sash.





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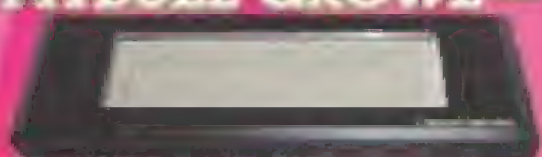
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Aeroponics is a system of misting roots that can result in explosively fast growth but can also be quite difficult to master. This simple 12-plant unit called the Clone and Grow 12 works great for cloning plants, vegetating seedlings or flowering rooted clones. From seed or clone straight through harvest, the roots receive a nourishing spray of nutrients and plenty of oxygen. Growers can expect huge harvests as long as they properly follow all instructions and pay attention to details such as water temperature and pH. Twelve net pots topped with neoprene discs keep it efficient and clean, with 6 inches between plants to give them room to thrive. Three aeroponic nozzles in the sides of the tube keep the mist flowing for the optimum mix of oxygen and nutrients. The system can be broken down in minutes and fits in a small box when not in use.

*Price: \$349.99*

*Contact: Huge Harvest, 805-705-9698, [hugeharvest.com](http://hugeharvest.com)*



**BEST NEW LED TECHNOLOGY**  
**Supernova from HID Hut**

LED (light-emitting diode) lighting is quickly establishing itself as the future of indoor growing technology, and the Supernova is at the forefront. Great lumen output paired with incredible electrical efficiency makes this unit the best on the market. You can adjust the spectrum to your personal preference while using only 270 watts of power. For \$400 more, you can choose the enhanced-spectrum unit for even more light penetration and absorption thanks to cool lights that can be placed closer to your plants. The different angles of the seven-circuit boards, ensuring that the light is given maximum spread, set this unit apart from the rest. So replace those 600- and 1,000-watt energy stealers with an efficient LED—you'll definitely see the difference.

*Price: \$999.95*

*Contact: HID Hut, 866-768-8565, [hidhut.com](http://hidhut.com)*



**BEST COMMERCIAL TRIMMER**  
**Samurai Power Trimmer**

What would you say if I told you there's a machine out there that can do the work of 20 trimmers—and in just minutes instead of days? We didn't believe it ourselves until we saw it with our own eyes (go to YouTube and search for "Samurai Trimmer"). Best of all, the Samurai Power Trimmer is simple and easy to operate and comes with a complete one-year warranty. All you have to do is choose how closely you want to trim, and the stainless-steel precision parts do the rest—simply drop the untrimmed tops into the hopper, let them bounce around for as long as you want, and then remove your perfectly trimmed buds. The Samurai also comes apart for easy cleaning with a power washer when necessary.

*Price: \$12,900*

*Contact: Advanced Nutrients, 604-854-6793, [advancednutrients.com](http://advancednutrients.com)*







### BEST ALL-IN-ONE STEALTH GROWBOX **Superflower from Supercloset**

Growboxes come in many shapes and sizes, but many people enjoy the three-chamber systems for their capacity to contain the whole growing operation in one simple and stealthy place. Perfect for the basement or the garage, the Superflower from Supercloset provides one area for mother plants, one for clones and vegging plants, and the biggest one for flowering.

The unit is very discreet, using carbon filtration to keep odors to a minimum and running quietly and efficiently. The package comes with a three- to six-month supply of Dutchmaster Nutrients and includes a cloner, timers and pumps, and heating mat for sprouting seedlings, pH-control kit, an instructional DVD and much, much more. Don't you want a Supercloset?

*Price: \$2,395*

*Contact: Supercloset, 877-476-9787, [supercloset.com](http://supercloset.com)*



### BEST BALLASTS **Nextgen Electronic Ballasts from CAP**

Electronic ballasts are all the rage these days—and why not? With proper bulbs, the new digital models run cool and quiet and provide many more lumens than traditional core-and-coil ballasts. The new Nextgen Ballasts from CAP are small, lightweight and extremely user-friendly, running high-pressure sodium (HPS) or metal halide (MH) bulbs and providing 30% more light than standard ballasts. They run flicker-free and practically silent, with thermostatically controlled fans to cool them down if necessary. Some models can switch between 400 and 600 watts, and they all allow you to keep your bulbs up to 65 feet from the ballast.

*Contact: Discount Hydroponics, 877-476-9487, [discount-hydro.com](http://discount-hydro.com)*



### BEST NEW LIGHTING TECHNOLOGY **Sun Pulse Systems & Digital Bulbs**

Currently the only bulb manufacturer in the world that makes truly compatible high-intensity discharge (HID) bulbs for electronic and digital ballasts, Sun Pulse is taking the market by storm. Besides a complete line of bulbs (six in all) ranging from 150 to 1,000 watts, Sun Pulse has also developed some of the most unique and advanced light-delivery systems ever to hit the showroom floor. Each bulb comes in four different Kelvin temperature formats (listed as 3 K, 4 K, 6.4 K and 10 K) and are combined in various delivery systems to maximize spectrum and better replicate natural sunlight. The larger units—three-, four- and six-arm spinners that look much like ceiling fans and rotate at 25 to 45 rpm—allow light to better penetrate garden canopies while simultaneously cooling the lamp systems and preventing heat build-up. Single- and double-bulb spinners are also available.

Depicted here is the Digimax Trio lamp. One of Sun Pulse's stationary units, this lamp comes with a triple-light tuner that allows growers to fine-tune the hue of each bulb for precision application. This means a grower can adjust his or her lighting system for each particular stage of growth, mimicking the earth's natural cycle of seasons.

*Contact: Sun Pulse Lamps, 800-667-9070, [sunpulselamps.com](http://sunpulselamps.com)*



#### BEST FLOWERING GROWBOX

##### **Cultivator Xtreme from Homegrown Hydroponics**

Having your whole growing space enclosed in a box on wheels provides plenty of obvious benefits. The Cultivator Xtreme is a separated dual digital-lighting system with 800 watts of HPS/MH in two separate 400-watt bulbs. Add to that four T-5 vertical fluorescents and seven different cooling and exhaust fans and you've got a machine to produce some serious bud. You control the lights and fans from the convenient front panel, and the temperature and humidity are on an easy-to-read digital display.

Best of all, the hydroponic system it comes with is simple and straightforward, and the whole unit is both lockable and extremely portable.

*Price: \$2,500*

*Contact: Homegrown Hydroponics, 888-503-3861, [homegrown-hydroponics.com](http://homegrown-hydroponics.com)*



#### BEST PORTABLE TRIMMER

##### **TrimPro Gasoline**

Moving and trimming huge outdoor harvests requires plenty of work and risk—so why not trim your whole harvest in the field and bring home only the buds for drying? Introducing the Gasoline from TrimPro, a portable unit that allows you to complete the entire trimming process right at your outdoor grow site. It's basically the same as the TrimPro Automatik, which won a STASH Award last year, but with the ability to run anywhere. The four-stroke Honda motor makes it quieter and more reliable than ever, and you can adjust the speed of the blades to suit your preference. Once again, the Canadian research team at TrimPro has produced an essential product for the outdoor cultivator that reduces risk and simplifies a difficult task.

*Contact: TrimPro, 450-349-0811, [trimpro.ca](http://trimpro.ca)*







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#### BEST GROWING CONTAINERS

##### **Botanical Brothers Hydro Buckets**

Irrigating plants from below is a technique with many benefits—efficiency, economy and water conservation are a few that come to mind. And Botanical Brothers Hydro Buckets are the best way to achieve a perfect watering balance: Simply fill the reservoir with water or nutrient solution and the plant does the rest, drawing up liquid as needed and encouraging its roots to explore and expand throughout the container. A dipstick allows you to check on water levels anytime and adjust

accordingly. You'll water less frequently and still get amazing results (plus drainage holes ensure that you'll never over-water and drown your precious plants). You can even automate as many buckets as you want with just one valve, making proper watering as easy as turning on the faucet. Keep in mind that improper watering is one of the main culprits in an unsuccessful garden. Avoid this problem altogether with these innovative, simple-to-use buckets, which are available in seven different sizes.

*Contact: Botanical Brothers, 310-922-8390, [botanicalbrothers.com](http://botanicalbrothers.com)*



#### BEST CLONING UNIT

##### **GroClone**

The key to a successful pot garden is a constant supply of healthy clones. The GroClone provides perfectly rooted cannabis cuts every time, ensuring a level canopy and plants that perform in a uniform manner. Quiet and efficient, GroClone's air pump creates essential oxygen bubbles without significantly raising the temperature of the water (which can lead to stem rot). With 50 individual cloning sites placed 2 inches apart, the unit takes up little room yet provides an impressive output of successfully rooted clones, thus enabling you to stay growing instead of spending weeks incubating tired and cranky babies.

*Price: \$159.99*

*Contact: GroClone, 916-391-9500, [groclone.com](http://groclone.com)*



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**\$579.95**

**The Phototron IX**

36,000 Lumens

**\$599.95**



Photo shows 21 days from start





#### BEST MINI-GROW TENTS

##### **Sun Station**

Head stashers, mother planters and strain makers, take note! Single-, double- and quadruple-plant tents are now available for the home hobbyist or serious grower looking to isolate mother plants or even create experimental breeding chambers for small hybridization projects. Each tent is made of a super-durable nylon material and zips up tightly to lock light in or out. It also comes equipped with built-in nylon flanges that allow lamps to be cooled and small ventilation fans to be inserted for additional atmospheric control.

Perfect for smaller-wattage bulbs (150, 250 or 400 watts), these miniature labs can accommodate customized growroom specifications by providing access portals for a variety of equipment. They excel as clone producers, holding mother plants that need constant vegetative lighting. They can also be used as breeding chambers when testing strains for cross-pollination lines—or simply use them for full-cycle runs to grow your own kick-ass head stash! Available in a variety of sizes.

Contact: Amerinada, 866-641-4769, [growshop.com](http://growshop.com)

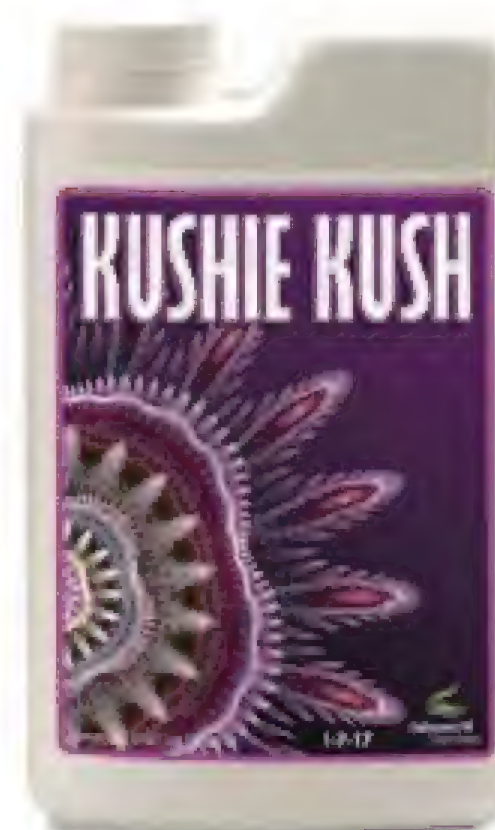


#### BEST NEW GREENHOUSE INNOVATION

##### **Nansulate Advanced Energy-Saving Coatings**

Greenhouse growers know the unique challenge of keeping their garden space cool on hot days and warm on chilly nights. Luckily, we've discovered a new product that solves this dilemma. Nansulate is a thin-film thermal-insulation coating designed to be applied to the clear panels of greenhouses to reduce energy consumption and costs without reducing light levels. The environmentally safe, water-based coating features a nanotechnology-based material that allows you to use less energy for heating and has the added benefit of being resistant to mold and fungus growth. Simply spray or brush on three coats and it will last a decade.

Contact: Industrial Nanotech Inc., 800-767-3998, [nansulategreenhouse.com](http://nansulategreenhouse.com)



#### BEST MEDICINAL NUTRIENTS

##### **Kushie Kush from Advanced Nutrients**

Kush lovers are celebrating the first-ever strain-specific bloom booster that makes Kush plants produce larger, more potent yields. Medical growers supplying high-value Kush to California's med-pot clubs report that Kushie Kush pushes the strain to record highs for weight, potency and yield per watt. Designed by scientists who grew and tested all of the major Kush subvarieties, Kushie Kush goes way beyond generic bloom boosters by feeding Kush plants exactly what they need for maximum medical production. If you're growing Kush, then use Kushie Kush—because you're guaranteed to get more from this legendary strain. Available only at medical-marijuana dispensaries.

Contact: Advanced Nutrients, 604-854-6793, [advancednutrients.com](http://advancednutrients.com)



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#### BEST HASH PRESS

##### **Jack Puck from TrimPro**

Nothing beats a perfect slab of dark, smooth hash made from the resin that coats the leaves and buds of the cannabis plant. Hashish is at its best when all of the compressed matter is crushed together so that each gland head explodes, releasing its essential oils and terpenes together into a soft, pliable chunk. It takes extreme pressure to accomplish this task, and the Jack Puck presses from TrimPro are the best and most durable on the market. You can also heat the molds to make your hash paste easier to press, and they now come in round or square models, at 2- or 6-ton strengths, starting at \$250.

Contact: TrimPro, 450-349-0811, [trimpro.ca](http://trimpro.ca)



#### BEST ORGANIC NUTRIENTS

##### **Organicare from Botanicare**

With so many options out there these days, choosing a natural plant food can be a daunting experience. But here's some good news: Botanicare's newest line, Organicare, is an OMRI-certified organic-nutrient feeding system that your plants will love. The products provide a complete nutritional profile using sustainable, all-natural ingredients derived from composted fishmeal, seaweed, poultry poop and other environmentally friendly sources. It does tend to smell like a barnyard when wetted, but that's okay: Plants (and especially their roots) thrive due to Organicare's ability to feed microorganisms in the soil that in turn break down the nutes for easy uptake. The proof is in the yield, flavor and resin production, and Organicare doesn't disappoint on any level.

Contact: Hydro Wholesale, 866-803-2100, [hydrowholesale.com](http://hydrowholesale.com)

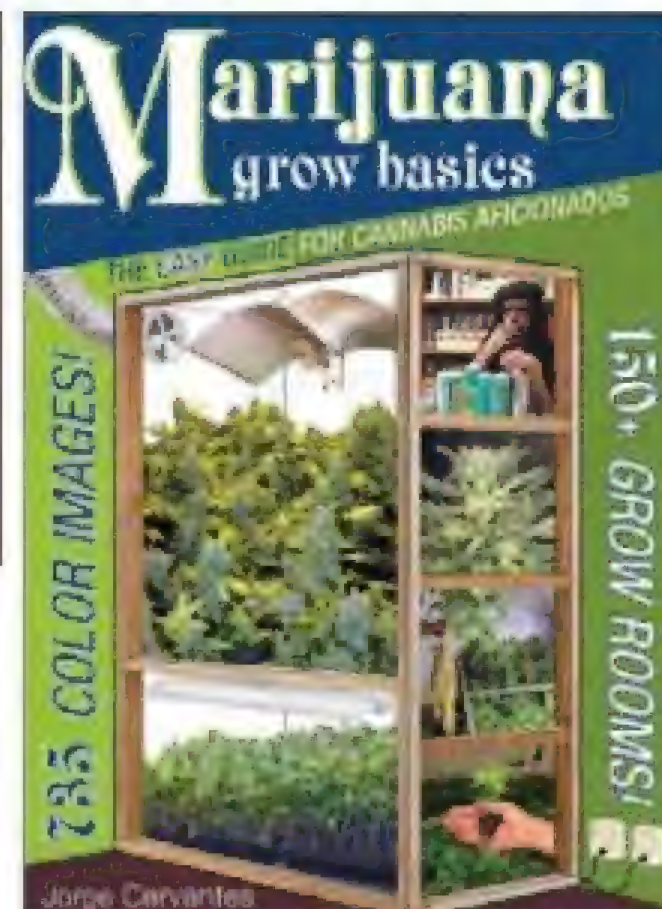


#### BEST COMMERCIAL NUTRIENTS

##### **Advanced Nutrients**

The care and feeding of a large-scale garden can be tiresome and difficult, and growers typically stick with the nutes they know. However, the botanical experts and sensi scientists at Advanced Nutrients refuse to rest on their laurels: They've been hard at work developing cannabis-specific plant nutrients that are simple to use and super-effective. Old stalwarts like Scorpion Juice, Big Bud and Piranha are paired with newer developments like their Connoisseur two-part formula, Rhino Skin, and the new and improved Voodoo Juice for bigger yields and simpler feeding schedules (just check out their online nutrient calendar).

Contact: Advanced Nutrients, 604-854-6793, [advancednutrients.com](http://advancednutrients.com)



#### BEST NEW GROW BOOK

##### **Marijuana Grow Basics by Jorge Cervantes**

At last, a new volume from the master of marijuana cultivation and HIGH TIMES contributor Jorge Cervantes, author of the essential "grow bible," *Indoor Marijuana Horticulture*. This new simple and easy guide, *Marijuana Grow Basics*, shows a range of American, Canadian and European techniques for getting the most potent cannabis possible. Jorge explains how to grow fewer plants with higher yields, and includes a discussion of the Sea of Green and Screen of Green techniques—as well as detailed instructions (with photos) for growing a 12-week crop from seed or a 10-week crop from clones. And growing with lights—CF, MH, HPS, HID and LED—has never been better explained. Follow Jorge's expert advice and even first-time growers are guaranteed a successful harvest!

Contact: HIGH TIMES Headshop, 866-768-7467, [headshop.hightimes.com](http://headshop.hightimes.com)



# Finally a Strain-Specific Bloom Booster That Makes Your Kush Plants Yield Larger, More Potent Buds

In California's medical marijuana community, Kush is Cannabis King. And now the most successful Kush growers are using a Kush-specific bloom booster to satisfy patient demand for premium-grown Kush medicine.

"I get incredible prices for my Kush," explains David R., a grandmaster Humboldt County medical marijuana cultivator who only grows Kush. "I am getting more from my grow room using this Kush booster that makes more harvest weight and medicinal potency."

To understand how this Kush-specific flower enhancer produces bigger buds, recall that major varieties of medical marijuana produce different medicinal effects by creating unique ratios and types of active compounds.

These valuable compounds include THC, cannabidiol, aromatics, terpenoids, essential oils and resins that individually and together have a wide range of therapeutic effects.

So how does the Kush bloom booster work? By feeding the specific Kush metabolic pathways and processes that produce larger, more potent Kush buds.

## What Makes Your Kush Tick & How Can You Give Your Harvest Value a Kick?

Hydroponics experts at Advanced Nutrients saw that Kush is a must-have for the medical community, so company co-founder Michael "Big Mike" Straumietis asked his team of plant scientists to immediately find what makes Kush tick and what fires up its flower-making machinery.

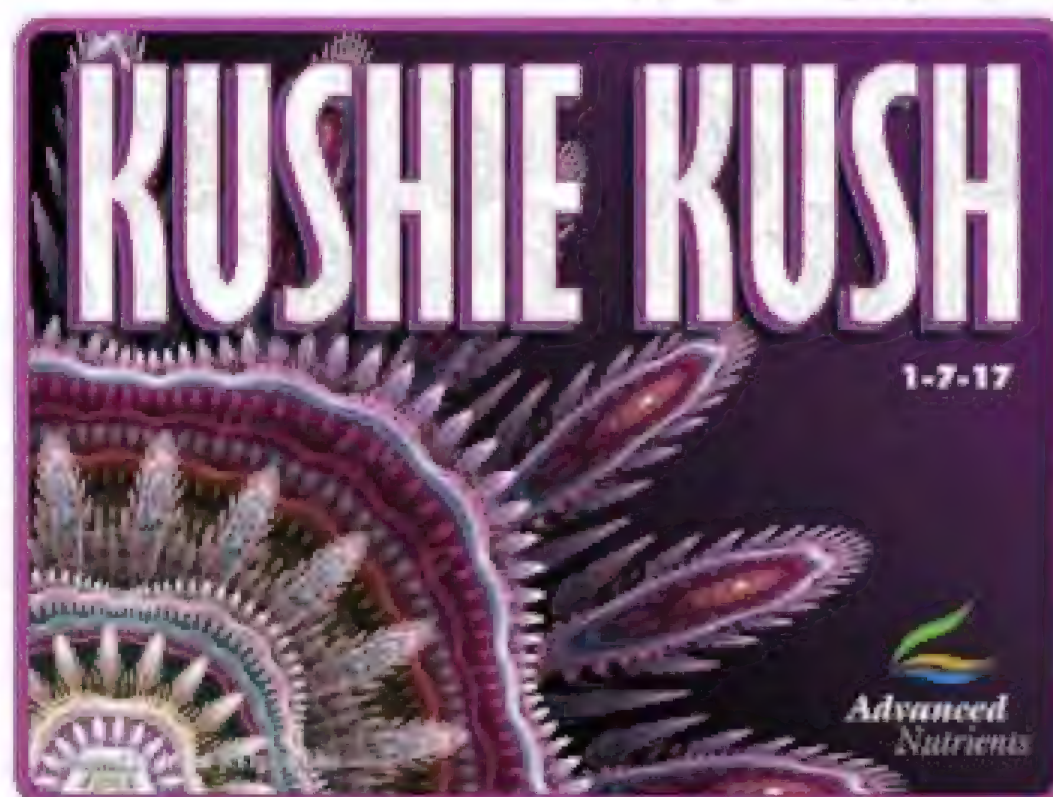
First the scientists gathered a vast array of seeds and clones of the most popular Kush sub-varieties and grew them in test labs.

Every day they took plant tissue samples to discover

how nutrient inputs and other supplementation affects Kush yield, potency, taste and aroma.

The good news is that Advanced scientists learned the precise combinations of phosphorus, potassium, amino acids, co-factors, metabolic triggers and other substances that feed Kush exactly what it needs so it far exceeds its genetic potential.

Using Kushie Kush, you get gooey, glistening, resin-dripping, weighty, tight, dense, sticky Kush buds.



*Scientists grew dozens of Kush plants to discover the precise bloom booster ingredients that make larger, more valuable Kush flowers.*

## Get the Advantages of Kush-Specific Ingredients

One thing to notice is that while Kush growers have spent many years and dollars using other bloom products, never before has anyone given Kush cultivators a bloom booster that specifically pumps more value, yield and potency into their beloved Kush buds.

And you bet you'll feel your medical problems very quickly recede when you've inhaled your tasty bowl of custom-fed Kush medicine.

Please take a moment right enjoy the fact that feeding Kushie Kush to your crops heralds an unprecedented new era in crop supplements with you wielding grandmaster control over the most intimate, flower-stoking mechanisms your Kush plants have deep inside them.

Better yet, you're guaranteed at least 17.73% increase in bud weight, you'll be glad you use Kushie Kush to unleash your kush plants full genetic potential.

*Please note that Kushie Kush is a medical cannabis specific formula only available to medical marijuana dispensaries. If your dispensary doesn't carry it, please ask them to contact Advanced Nutrients and get some for you right away.*



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Yeah, we know, some of you are thinking, “The Phototron? Really?” We’re aware that the Phototron isn’t some massive pot-production device, but you know what? It’s been around for almost 30 years, so they must be doing *something* right. We’ve seen plenty of buds grown out of them and, more typically, mother plants thriving in one model. Consider it a “gateway” product—for many people, it’s their first experience with indoor grow lighting and micro-grows, as well as the device that helped them take that initial plunge into self-sufficiency. Truth be told, we use ours to grow orchids these days, but we’ve still got a soft spot for this industry pioneer. So for all of these reasons and more, our Lifetime Achievement Award this year goes to honor the iconic and notorious Phototron.

Contact: Pyraponic Industries, 800-651-2837, [phototron.com](http://phototron.com)







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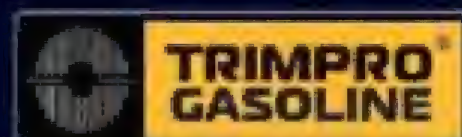
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**info@trimpro.ca 450.349.0811 www.trimpro.ca**

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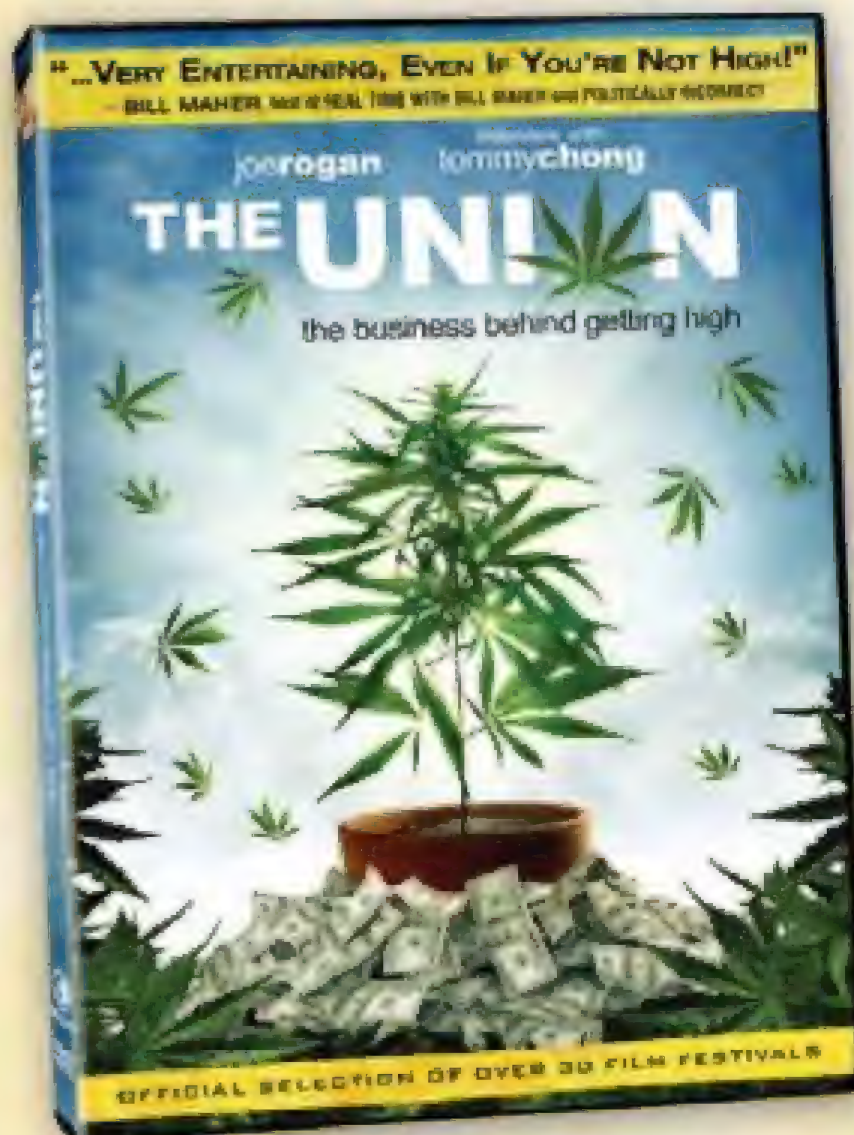
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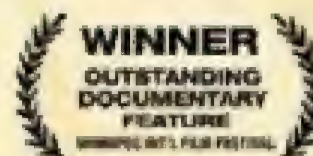
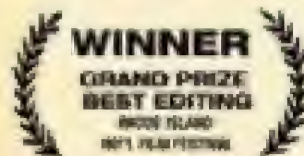
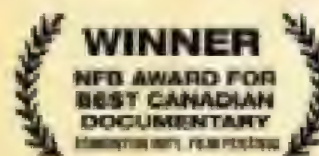
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You've heard the legends of Maui Wowie and Kona Gold grown in patches of *pakaloko* ("crazy tobacco") on remote parts of the famous volcanic islands. Our Hawaiian cannabis correspondent reveals what's happening now in this potential pot paradise.

Hawaii grows bigger every year where molten lava meets the ocean. At right, White Widow glows in the light.

STORY & PHOTOS BY SOUTH BAY RAY







# BURNING IN HAWAII

There's just something about it that touches your primal nature when you see the red-hot lava making its way down the side of the mountain and oozing into the ocean. More than 550 acres of land have been added to the Big Island of Hawaii since the lava started flowing in 1983. Land isn't the only thing that's been growing here, however: Thanks to the tropical rain showers and warm Hawaiian sun, the Big Island is also known as the Orchid Isle and the Palm Capital of the World. So it's no surprise that marijuana has been flourishing here for many years.

I first visited the Big Island in 1969. At that time, I was living on the North Shore of Oahu. I'd moved there from San Diego in '68 to ride the big waves, and I stayed in South Kona on a coffee plantation. Some musician friends of mine were renting a shack on the grounds, and they had some beautiful marijuana growing amidst the coffee plants. Almost all of the pot consumed in Hawaii back then was coming from south of the US border. It was an inspiration to see a cannabis plant growing for the first time, and it made a lasting impression on me.

It was around this time that growing your own in Hawaii really started to bust out. It's been said by many that before the police helicopters started flying, the economy on the Big Island prospered in large part due to marijuana growing. And even though the helicopters have taken out thousands of plants since

then, there are still many cultivators who have adapted to the situation and continue to grow successfully. Indoors, medical and guerrilla growers are producing an abundance of beautiful buds. Many here have been growing for 30 years or more, breeding plants to suit their needs. These days, *indica* mixes seem to dominate, probably because they do well indoors and are easier to hide outside. Most growers here are able to get three or four harvests a year as well.

The Big Island grows a lot of pot because it's a *big* island. It's larger than all the other Hawaiian islands combined and has endless acres of forests, valleys, clean rivers and beautiful waterfalls. It truly is a pot grower's paradise. One indication that the Big Island grows more pot than any of the other islands (and maybe more than all the other islands combined) is the fact that, as of July 2008, there were 4,200 medical-marijuana licenses issued statewide—and a full 2,600 of them were on the Big Island. This means the Big Island has 13 percent of the state's population, but 63 percent of its medical-marijuana licenses. License holders are allowed to grow up to seven plants and possess up to three ounces of dried *pakaloko* (the Hawaiian term for pot). Think about it: That's at least 2,600 licensed growers on this one volcanic dot in the middle of the ocean! And who knows how many more thousands of *non*-licensed growers are here in Hawaii?

Let me now introduce you to a few of our finest in both categories.



A close-up photograph of a cannabis plant with green, serrated leaves and developing buds. The buds are small and covered in trichomes.

Hawaiian *indica* grown by Green Thumb.

A photograph of a cannabis plant with a large, dense, and bushy top. The leaves are green and serrated.

A chunky White Widow top.

A photograph of a cannabis plant with a tall, slender stem and many small, developing buds. The leaves are green and serrated.

Medi Bud sparkles in the light.

A photograph of a cannabis plant with a large, dense, and bushy top. The leaves are green and serrated, with some showing yellow variegation.

White Widow in Blue Hawaii.

## GREEN THUMB

Green Thumb got his medical-marijuana license seven years ago. The first thing he did was move to a location that was good for growing. He built a greenhouse using skim-milk-colored plastic, and guess what? It works great!

Two other family members have licenses designating him as their caregiver, allowing him to grow a total of 21 plants. And believe me when I say that he's having lots of fun—because being able to do what you love to do and enjoy the fruity smoke of your labors is the very definition of Big Island Big Fun.

Green Thumb has been breeding Northern Lights x Afghan for years, and he now has a very nice 3-foot plant that produces sweet-tasting organic buds from start to finish in 90 to 100 days. All of the plants are grown from seed. He keeps the entire harvest for personal use, but makes money selling the many varieties of exotic fruits that he also grows on the property. He primarily fertilizes his plants with Natural Hawaiian Spirulina Powder, which is made on the Big Island. If you want to check out what's happening here, including the lava flows and the Spirulina facility, go to [bigisland-bigisland.com](http://bigisland-bigisland.com).

## NATURE LOVER

Nature Lover is a guerrilla grower. He's been growing on the Big Island for over 30 years—and as you've probably heard, guerrilla growing isn't easy here. He's lucky to harvest 25% to 50% of what he plants. The reasons are threefold. The first is natural enemies like ants, slugs, wild pigs, other insects, and too much rain (or not enough rain). The second is rippers: Unfortunately, there are some low-consciousness humans around here who choose to rip off others by traversing the wilderness areas that are known for growing; they think nothing of taking whatever they can find and selling or smoking it. The third reason is Operation Green Harvest, the police helicopters that have been locating and eradicating plants for many years.

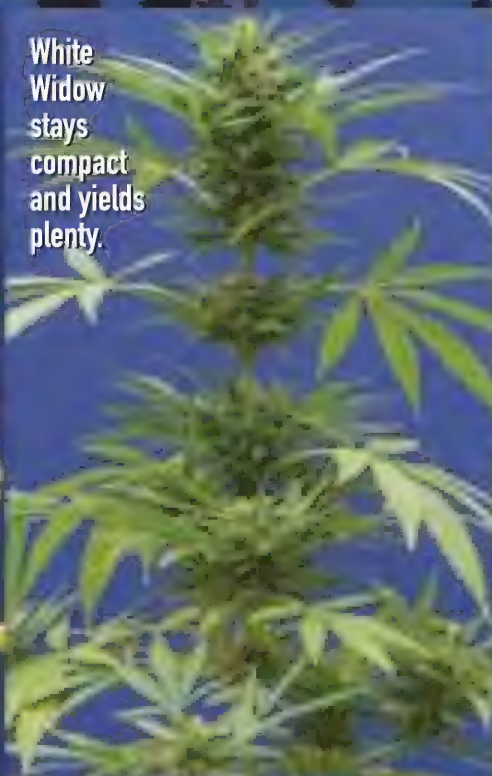
Nature Lover has been the victim of these multiple enemies on many different occasions. He likes to put his plants into the ground instead of pots because they require less watering that way. And because there's not a lot of soil to be found in volcanic rock—and what's there has thick roots from tropical growth—he has to work hard on his hands and knees, digging with a hand pick and bringing in his own soil.

Nature Lover has a partner who drops him off in a remote location and comes back at a designated time to pick him up. (A car sitting by itself out on some remote country road with no houses around is a signal to cops and rippers alike that there's a grow going on in the area.) He creeps through the bushes, sometimes crawling under thick ferns so as not to leave a trail. Once his plants are in the ground, he checks on them only about once a month, and he always plants in five or six different locations. Of that number, only one to three sites are likely to survive, but that's more than enough to keep Nature Lover, his partner and his friends very, very happy.





Blueberry nuggets thrive on Hawaiian sunshine.



White Widow stays compact and yields plenty.

**INDOORS, GROWERS ARE PRODUCING AN ABUNDANCE OF BEAUTIFUL BUDS. MANY HERE HAVE BEEN GROWING FOR 30 YEARS OR MORE, BREEDING PLANTS TO SUIT THEIR NEEDS.**



The Big Island's natural beauty.



"Blue Hawaii" has a whole new meaning!



Peace and aloha!



Matthew Brittain, pot patriot, in Hawaii.

## LOCAL BOY

Grower #3 is a "local boy" (i.e., a Hawaiian born and raised on the Big Island). He's an indoor grower who puts his plants in soil-filled pots under lights. He's been growing for many years and has done very well with the famous AK-47 and Puna Blue, a Blueberry hybrid. This man is very knowledgeable and a constant source of information to those who know him. He's also mastered the art of cloning, and his setup has separate areas for cloning, vegetative growth, flowering and drying.

His soil mixture consists of one-half Sunshine potting mix, one-quarter Fox Farm Happy Frog potting mix and one-quarter Perlite #3. He uses one 4-foot high-output fluorescent Tek light for clones and early vegetative growth and finishes them off under two 600-watt high-pressure sodium (HPS) lights. Local Boy uses the extra perlite to give him good drainage, which allows him to feed his plants regularly. He prefers Fox Farm's Grow Big, Big Bloom and Tiger Bloom, as well as Humboldt County's Gravity, Bush Master and Purple Maxx. Needless to say, he's a very successful grower with a bright future on the Island.

## MATTHEW BRITTAIN

The Big Island is also fortunate to have individuals who are working hard to support the rights of people who need medical cannabis. One such person is Matthew Brittain at [medicalmarijuanaservices.com](http://medicalmarijuanaservices.com).

Matthew is a licensed clinical social worker who has been practicing psychotherapy in Hawaii since 1978. We've worked together in the past as crisis-outreach counselors: He's a good friend and an outstanding professional. In 2005, he began helping patients obtain their medical-marijuana certificates in Hawaii. Since that time, he and his medical team have helped to certify or recertify more than 800 patients.

Matthew considers himself a patriot in the fight against oppression—specifically, the oppression that medical-marijuana patients and their caregivers still experience—and he is devoted to helping ease the suffering of qualified medical patients. He has also expanded his practice to include the other Hawaiian islands. He doesn't have a dispensary; patients must grow their own medicine or find a caregiver to do it for them. Instead, Matthew's private health-care organization helps to educate people and facilitate their participation in the state's medical-marijuana program. Way to go, Matthew!





Dry White Widow on display with other fresh Hawaiian flowers.



White Widow grown out by Wild Dog.



Wild Dog's greenhouse medical-marijuana nursery.

## WILD DOG

Wild Dog has a medical license and also grows for a friend with one, allowing him a total of 14 plants. He and his friend like variety, so they buy different strains of feminized seed from marijuana-seeds.nl. Using feminized seed makes it easier for them to stay within the number of plants allowed—for example, when two plants are harvested, two seeds are started. This means they never go over their legal limit, because they don't need to start five or six non-feminized seeds to get two female plants.

Wild Dog germinates his seeds in a wet paper towel and then puts them in 4-inch pots under 18 hours of light using a 2-foot fixture that holds four T5 grow lights. After three weeks with no nutrients, his babies are transplanted into 3.5-gallon pots in the greenhouse. He uses Premier Pro-Mix HP (high-porosity) Mycorise potting soil for its good drainage, and he feeds the plants with Dyna-Gro Liquid Grow for the vegetative stage and Dyna-Gro Liquid Bloom for the flowering stage.

At any given time in his greenhouse, you will find two or three White Widow, Holland's Hope, Northern Lights, Blueberry, Medi Bud or NYC Diesel plants at various stages of growth. So Wild Dog can say to himself, "Hmm, let's see—what do I feel like vaporizing today?" Which is not a bad dilemma to have!

**THE PEOPLE OF THE BIG ISLAND HAVE MADE THEIR VOICES HEARD, AND THEY'RE SAYING: "LEAVE THE GROWERS AND PERSONAL USERS OF MARIJUANA ALONE—THEY ARE NOT THE CRIMINALS!"**

## ISLAND POT POLITICS

Like almost everywhere else in the world, Hawaii is the scene of an ongoing battle between law enforcement and marijuana advocates. One giant step forward for growers was the ballot initiative passed by Big Island voters in the 2008 general election. By a healthy margin of 58% to 42%, voters said they wanted to make the cultivation and possession of marijuana intended for adult personal use the Big Island's lowest law-enforcement priority. They also stipulated that the County Council shouldn't accept federal money for the marijuana-eradication program known as Green Harvest.

Since then, however, the police department and prosecutor's office have refused to act on the initiative, arguing that it can't overturn state and federal law, which still has to be enforced. Even so, the County Council has voted not to accept federal funding for Green Harvest, and the prospect is good that police helicopters will cease their eradication efforts when the current fiscal year ends on July 1, 2009. The people of the Big Island have made their voices heard, and they're saying: "Leave the growers and personal users of marijuana alone—they are not the criminals!" 🌿





## HOLLAND'S HOPE







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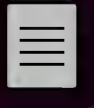
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ADVANCED GROW FEATURE


# LIGHTING THE FUTURE, TODAY

New technology in bulbs, color spectrum and delivery systems lights the way to better growing.

BY NICO ESCONDIDO







Afraid? Don't be. Intrigued? Good. Read on to find out why these lamps are the best for your garden.

What if we told you that there is a new lighting system that will cater to the varying needs of your plant's grow cycle, will penetrate the canopy of your garden with greater efficiency, and will run cooler than standard bulbs, allowing you to flood your plants with bud-building artificial sunlight? Welcome to Part III of our Advanced Lighting Series.

It's been a long time getting here, but the future is now and the next phase in lighting technology is here, shining brightly in our face.

Oftentimes, we look at our gardens and examine our plants and their environments. We look for solutions to temperature problems in the growroom or nutrient deficiencies in plants. Yet all too often we ignore the most important aspect of indoor cultivation—light. Plant growth and bud formation rely on photosynthesis as their primary catalyst. And photosynthesis starts with the sun.

When it comes to indoor cultivation, we've been using the same "sun" for over 30 years—ever since the advent of indoor growing. With today's technology and science, the time for re-evaluating high-intensity discharge (HID) lighting is long overdue. We've moved forward with ballasts, developing better, more efficient electronic and digital ballasts. So what's next?

Bulbs!

However, there's a problem: it turns out that as the industry moves toward electronic and digital ballasts, the bulb manufacturers aren't moving in sync. There's an acknowledged lack of compatibility between bulbs and the new ballasts. One of the major HID-bulb manufacturers, Hortilux, has published a research article stating that they believed a communications gap between US bulb makers and Asian ballast producers was probably the biggest culprit in the mix-up.

One company's bulbs do work with electronic and digital ballasts: Sun Pulse, a small but growing lighting business. Led by founder-resident scientist Gerald Garrison, Sun Pulse aims to change the world of lighting.

His technology and the theories behind it are new, complex, and to us, persuasive.

## FREQUENCIES AND SUNLIGHT

Aside from total compatibility with electronic and digital ballasts, Sun Pulse works to offer growers better options in other areas of cultivation as well. In this section, we're going to deal specifically with spectrum and photosynthesis.

If you've read the previous two parts to this series (available at [hightimes.com/lightingpart1](http://hightimes.com/lightingpart1) and [hightimes.com/lightingpart2](http://hightimes.com/lightingpart2)), you already have a good understanding about light, spectrum and photosynthesis. And if not, that's okay—the basic principles are easy to understand.

The key to indoor cultivation, as it should be, is mimicking nature so as to stimulate the plant's natural biological mechanisms, only artificially and indoors. The next step is actually trying to outdo nature, pushing the plants past their natural limits to realize their fullest potential.

In order to get the most from the plant, we need to look at the process of photosynthesis, specifically in relation to the sun, so that we can better understand what the plant needs and what we are capable of giving it. The first and most important aspect of this process is light frequency, or spectrum.

Pick up any plant-science or photobiology textbook about photosynthetic processes in relation to light, and you will learn that exciting both of the plant's photosystems (I and II) and all of its light-harvesting complexes with proper broad-spectrum lighting is essential to achieving its full potential. Mono- or dual-chromatic lamps with narrow-bandwidth lighting may not excite proper NADPH and ATP conversion in plants. This could cause poor chloroplast development and low glucose production, resulting in less energy for your plants—and smaller yields for you.





These four-arm spinner systems are spectrum-customized for flowering and deliver more than enough light to grow this lush, 300-plant garden. Each unit runs 1,600 watts.

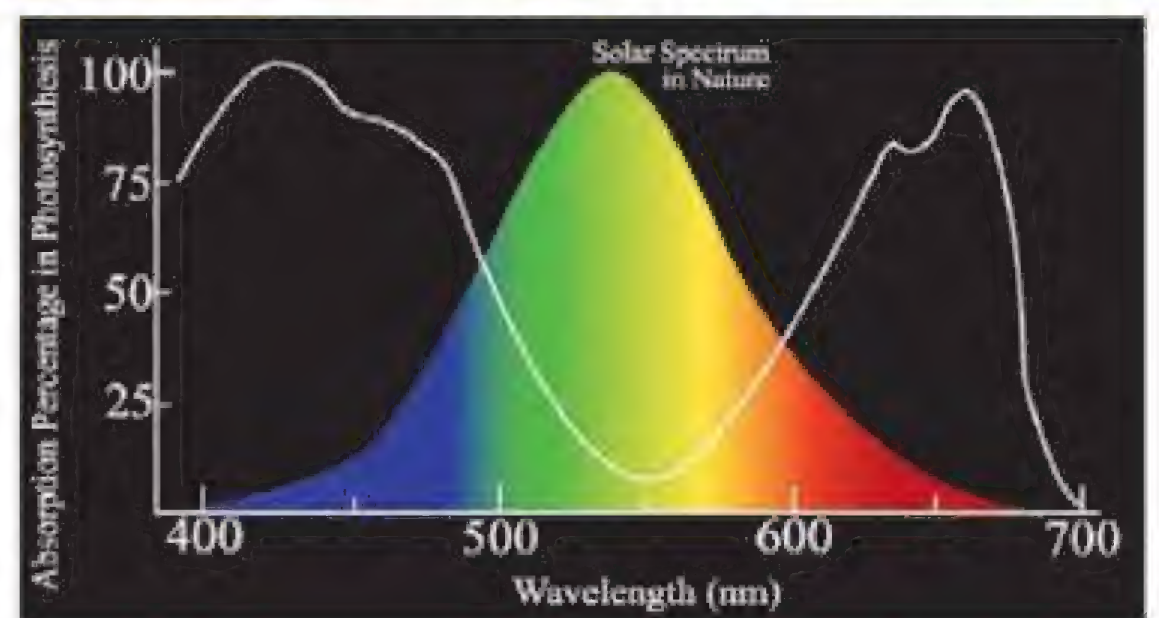
## MEASURING LIGHT

Besides spectrum, light energy is also a very important factor in supercharging a garden. The way we measure light has become skewed over the years. Light intensity has traditionally been measured in lumens or foot-candles, but this is really a unit of measurement for what the human eye can see, not what a plant can use. The importance of color spectrum is diminished greatly when light is measured in lumens, and so is the relevance of the light's energy.

PAR (photosynthetically active radiation) is a rating for light that corresponds to the main portion of the spectrum used by plants, representing wave frequencies that fall between 400 and 700 nanometers. The PAR watt is a unit of measurement that attempts to define the amount of photons (energy) that a light source emits. While this is a better unit of measurement for light, it is still only a value for a lamp's particular light at the bulb level, not the surface level of a leaf.

The amount of usable light at the leaf's surface depends both on the kind of light and the method of delivery. Photobiologists measure the light energy on a surface (also known as irradiance) in terms of watts per square meter. But the best and truest way to measure light for indoor cultivation is to hold a light meter directly on a leaf's surface to see exactly how much energy the plant is getting from the light source. This is important because photochemical reactions depend immensely on the number of photons reaching the surface of the leaves.

The technology behind the Sun Pulse systems utilizes four different types of bulbs to provide maximum irradiance by using a better mixed spectrum in artificial lighting. With six different wattages of bulbs (ranging from 150 to



Shows a leaf's absorption percentage of each color spectrum, as well as the solar spectrum in nature.

1,000 watts), each bulb is available in one of four different Kelvin ratings. This is because light spectrum can also be measured by Kelvin temperature to express the color of a bulb. While PAR values measure the parts of light that a plant uses (photon energy), the Kelvin temperature of a bulb can be used to gauge that PAR rating by defining a bulb's spectrum.

The varying Kelvin temperatures of each bulb provide a different spectral wavelength or color frequency. By combining these bulbs in different types of lighting systems, growers can more closely replicate the sun's natural light for precise applications. Each stage of growth can be fine-tuned by using different bulb combinations to match the sun's light for different phases or seasons of the year.





# THE WORLD'S FIRST TRUE DIGITAL BULBS

With any new technology comes a lot of questions. What exactly is meant by “Kelvin-rated bulbs”? How do they work? And how are they made?

For starters, we need to understand that a kelvin is a unit of measurement for temperature; however, it is not the same as a degree. The Kelvin scale is a thermodynamic (absolute) temperature scale in which absolute zero—the theoretical absence of all thermal energy—is 0 K. Each color within the visible (and invisible) spectrum has its own Kelvin temperature when separated. But when taken together, as in sunlight, the temperature is just over 5,700 K. Comparatively, the temperatures of most high-pressure sodium (HPS) bulbs range from 2,100 K to 2,700 K, while metal- halide (MH) bulbs range from 5,200 K to 5,400 K.

Sun Pulse bulbs are made in four different color spectrums: 3 K, 4 K, 6.4 K and 10 K. However, these numerals do not delineate an actual Kelvin rating (i.e., “3 K” doesn’t mean that the bulb’s temperature is actually 3 K or 3,000 K)—in fact, the actual Kelvin temperatures are closely guarded by Sun Pulse as a trade secret. Instead, these numbers simply serve to define

This bud developed very well on a lower branch of a Bubba Kush plant because it received good light.



This three-arm spinner fits a smaller room and is fitted with a 3 K and two 6.4 K bulbs for vegging.



and differentiate between the bulbs and their respective spectrums.

The 3 K bulb is rich in reds and oranges, while the 4 K bulb has a fuller spectrum ideal for starts and finishes. The 6.4 K resembles daylight and is similar to MH bulbs, with more blue and green spectrum. Alone, this bulb can be used for vegetative phases. The 10 K bulb is the most unique, providing a lower-frequency, invisible spectrum that no other HID bulb creates. The 10 K has ultraviolet (UV) enrichment and appears bluish in color. When these bulbs are taken together in varying combinations, the result is an artificial light source that can much more closely approximate the sun’s natural spectrum.

PIGMENT TYPE	COLORS OF ABSORBED SUNLIGHT	WAVELENGTH OF ABSORBED SUNLIGHT	REFLECTED LIGHT (Pigment Color)
Chlorophyll a Chlorophyll b	Red, Blue	430 nm & 662 nm 453 nm & 642 nm	Green
Carotene Xanthophylls	Blue, Green	460 nm & 550 nm	Yellow, Orange, Red
Phycocerythrin	Yellow, Blue, Green	400 nm & 650 nm	Red, Orange
Phycocyanin	Red, Yellow, Green	500 nm & 700 nm	Blue





Notice the varying light colors on the plants as well as the thick canopy from correct light distribution. The room yields over a gram per watt.

units: A three-arm spinner, for instance, is lighter than a six-arm spinner and thus needs to rotate at a different speed to deliver light at the same pulse rate. This creates a highly dynamic light source, just like the sun.

Perhaps the biggest advantage of a spinning delivery system is the amount of total coverage and deep penetration of light that gardens receive. Aside from the actual diameter of the arms, the light emitted from each arm is not only reflected downward but also cast outward, making the light's footprint much wider than is the case with a motionless lamp. And because the bulbs are in constant rotation, the light is able to find and penetrate every crack in the canopy cover, allowing it to reach the lower branches. Growers currently using these systems have indicated increases of yield due to the extra size packed onto the lower buds. Because Sun Pulse's delivery systems are constantly throwing light around, the room naturally has fewer dark spots, which aids in overcoming this problem. Still, some new improvements to the spinner systems would include small diodes on the top of the spinner arms to illuminate ceiling areas, keeping the "good light" going down toward the plants.

The spinning lamps actually have more advantages than just better light distribution: they also prevent heat buildup and, following the laws of thermodynamics, stay cooler because of their constant motion. Whereas a stationary lamp acts as a conductor for heat, creating pockets that build up and permeate a growroom, the Sun Pulse units actually run cool enough for humans to touch.

This means that multiple spinner units can be run over hundreds of plants in large-scale grow ops and require no air conditioning other than the standard air exchanges for the room itself.

Take that one step further and apply it to CO<sub>2</sub>. The infusion of carbon dioxide into growrooms came about years ago when growers were having problems cooling their rooms due to the heat byproduct of HID lamps.



Simple to use, affordable and scientifically advanced, Sun Pulse systems are the way of the future.

## NEW DELIVERY SYSTEM, NEW THEORY—SPINNING LIGHT: MORE THAN MEETS THE EYE

We understand that deviations in the norm can freak people out. Well, stay with us. In addition to their radical approach to the lighting spectrum, Sun Pulse has designed a spinning delivery system that mimics the way sunlight is naturally applied to plants.

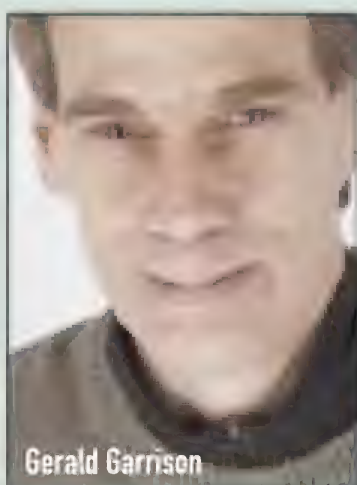
Lights spinning around at a pretty fast pace and casting various-colored hues around a growroom can make people feel like they're in a disco rather than a garden—and this might breed some skepticism as well. But we think we can safely say that there is something big brewing here.

The science, when applied to the garden, makes a lot of sense and pays off in multiple ways. First, the spinning arms deliver the various spectrums of the different bulbs at the exact same beat frequency that the sun's natural light delivers them to the surface of the Earth. Algorithms derived from the sun's frequency take into account light speed and distance, the weight of specific spinners and the varying spectrum frequencies of different bulbs, to ensure the correct number of revolutions per minute (rpm) for the various

## MAD SCIENCE: Sun Pulse's Gerald Garrison

One profession missing from the grow industry is that of the true scientist. Sure, manufacturers around the world have engineers and lab technicians on their payrolls to construct and test their products, but the component of deep science has been lacking.

One man who does have the advanced knowledge required to keep us moving forward, however, is inventor and scientist Gerald Garrison, the brains behind Sun Pulse. A man who left the cultivation field after helping formulate prototypes of the late core-and-coil ballasts, Garrison jetted for greener pastures (both figuratively and literally), making a small fortune in car audio technology. After years spent pumping out the latest lines of equipment for major outlets such as Alpine and Kicker, Garrison returned to the world of horticulture and found that nothing had progressed.



Gerald Garrison

"I looked around at the outdated technology still in use, and I knew I had to help change that." Applying his advanced knowledge of the wave physics used in audio technology to the particle physics of light theory, Garrison slowly began to develop bulbs and lighting systems that were not only better for plants, but also worked perfectly well with the high-frequency electronic and digital ballasts currently on the market.

Garrison is, however, a scientist of many disciplines, and as such his skills are extremely useful in fields other than ganja growing. Garrison is currently a leading member of a United Nations task force on feeding the world. He works with team members around the planet to build sustainable-farming techniques for all areas of the globe—and this is where we stoners catch a free ride. Building bio-domes in desolate areas to feed starving people, Garrison needed lighting systems that left a small carbon footprint while maximizing a crop's potential. The result was his patented line of digital lamps, rotating around and around in deserts all across the planet.

When gardens get too hot, the stomata within a plant's leaves close up, effectively shutting down photosynthesis. CO<sub>2</sub> was a quick fix for this problem, as higher levels of CO<sub>2</sub> will open the stomata and allow a growroom to run hotter.

Why would growers use lamps that get so hot that they cause photo-inhibition and shut down the plants' vital processes? And the answer, as we now know, is simple: because there were no other choices.

Sun Pulse has thrown down the gauntlet, and all other lighting companies should consider themselves served. There's a brave new world out there for the cannabis grower will to take a chance on something new.

So where does this leave us? As usual, it's up to you to decide—but having more and newer options has never been a bad thing! ✨



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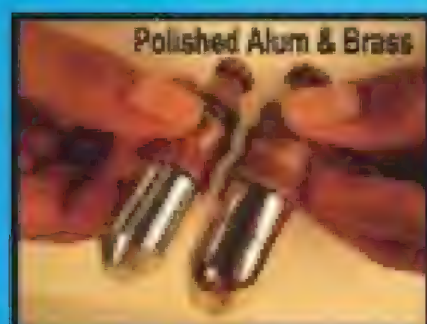
**The Problem:** Old style threads inside the bowl. Tobacco and tar clog threads. After awhile the cap will not screw down anymore.

All our SNEAK-A-TOKE models are now smooth bowl (Pat. Pend.)

## The Solution



**NEW DESIGN:**  
Threads are now on the outside of the bowl. Solves problem and makes cleaning a breeze! (Patent Pend.)  
The new hexagon-shaped "stop roll" mouthpiece also prevents pipe rollaway!



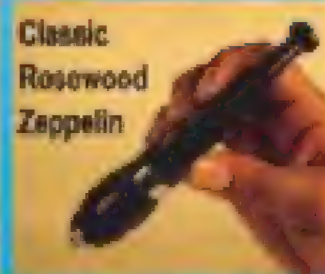
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
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Penn Jillette doesn't smoke pot. That's why he says, "I'll never have to get the red out!"



# NO ILLUSIONS

## PENN JILLETTE

INTERVIEW BY DAN SKYE

He's the towering, talking presence in the Penn & Teller show, a magic act that has been described as having "a psychotic twist." Penn & Teller have been performing for 30 years, including five years at the Rio in Las Vegas as the headliners at their very own Penn & Teller Theater. They've made countless TV appearances and have involved themselves in every aspect of the entertainment industry. *Penn & Teller: Bullshit!*—now in its fifth season—has received 11 Emmy nominations, including two in 2007, as well as the 2004 WGA Award for Outstanding Comedy/Variety Series. *Bullshit!* tackles the frauds and fakes behind such topics as alien abductions, feng shui and talking to the dead.

Remember the deep, booming voice of the pitchman that launched Comedy Central? That's Penn Jillette, a phenomenally creative and curious individual who boasts sterling credits as a writer, film producer, actor *and* musician (bass and double bass), in addition to being a now-legendary magician. Jillette speaks out on every issue that crosses his radar and clearly enjoys a good verbal joust, though it may be more apt to call him a flamethrower who will torch the foundations of each and every specious argument he encounters in countless magazine essays and videos.

Just before agreeing to this interview, Jillette saw a clip of Frank Zappa on YouTube in which he spoke about his own interview with *HIGH TIMES*. Zappa said it was the perfect place for him to address the subject of drugs, especially since he was so opposed to drug use himself (aside from caffeine and nicotine). A huge Zappa fan, Jillette thought he should consent for a similar reason, since he also eschews the use of drugs. Even so, that hasn't stopped him from becoming one of the most articulate American voices for legalization and freedom, in all its forms, speaking out today.

**So, according to what we see on the Web, you hate the baby Jesus and think you're smarter than the Pope. What's that all about?**

[Laughing] I don't think I said I was smarter than the Pope, did I? Was that a slip? I think I said I agreed with the Pope as far as this: If you're going to go with the Bible, then go with the Bible. But it's true, I'm not a—uh—Christian. I suppose by some, that's interpreted as hating the baby Jesus. I'm sure that there are baby Jesúsés out there that I'd be very fond of.

**So let's get right down to it: You actually never, ever smoked pot?**

I remember being out for one dinner with Lou Reed, Iggy Pop and David Bowie, and they had seen our show in New York City—this was back in the '80s. Now I would like to think—maybe I'm flattering myself—that there's some stuff we do in our show that is remarkable. We shoot bullets at each other; we do things that appear to violate the laws of physics. And yet, Lou's major claim for me being an interesting person to be around was that

I hadn't done any recreational drugs.

A good part of the conversation was them asking, "You mean you haven't smoked marijuana?" and me answering, "No, no, never marijuana."

"Acid?"

"No, I've tried to do a blanket thing."

"How about drinking?"

"No, I've tried to do a *blanket* thing. No!"

I have touched regular cigarettes, because I use them in fire eating; I've never been a buy-a-pack smoker. I have had caffeine—very, very hard to avoid *that* in the real world. And I suppose if you count spaghetti sauces and so on, alcohol *has* touched my lips—certainly vanilla has some in it. But in terms of actually choosing to use a recreational drug? Never. It's so funny, because people act like that's an amazing thing, and I say it isn't. If anything, it's a *non*-action.

**What was your motivation for engaging in this non-action?**

I think graduating from a rural high school in 1973. When I was 15 and 16, I had the longest hair

in my school, listened to the Velvet Underground and Zappa, all that kind of stuff. And although the Velvet Underground was, I guess you could say, pro-drug—or at least not anti-drug—Zappa was *always* anti-drug.

My mother and father never drank, but also never mentioned it. They never told me horror stories—it did not *exist*. I didn't know that people drank on New Year's Eve, even culturally, until I was in my teens. If Johnny Carson made an overt drinking or marijuana reference, which he often did with Doc Severinsen, my family was oblivious to it.

There's this campaign: "Talk to your kids about drugs." First of all, I don't think the government should be telling you what to say to your kids. Who the fuck are they? In the second place, in my particular experience, having no talk about drugs was quite helpful.

Being a huge fan of Lenny Bruce and Jimi Hendrix and that whole culture, I personalized drugs as a child and hated them because I'd never see Lenny Bruce. Lenny died in '66, so I was 11. I had memorized all of his recordings by the time I was 12, and I would never see him. In the simplistic worldview of a child, you could go two ways. You could say, "There's a hero of mine that did drugs—I should do them, too." Or you could also say, "There's a hero of mine that I'll never see *because of* drugs." I think all that meshes together.

**Did you feel peer pressure?**

That's the real advantage: I think if I had seen 18- or 19-year-old responsible people smoking dope, I would have felt tremendous peer pressure.

**You have often expressed amazement that pot use remains a criminal activity.**

Every time I say this stuff, I always have to follow it instantly with the fact that I'm an atheist and the fact that I'm libertarian. I really believe passionately that everything should be completely legal. If you haven't got the freedom to put anything you



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## THE HIGH TIMES INTERVIEW

want in your body, you're not living in a free country. It's as simple as that. But I don't even know if I would suggest my position to my children. I think my position is an extreme, eccentric position.

But you must have the freedom to be someone who chooses *not* to do something. We forget that in terms of religion—many people forget that freedom of religion also has to mean freedom *from* religion. I love the fact that Fred Phelps [the Kansas minister who believes God is punishing America for tolerating homosexuals] can carry around signs preaching the craziest kind of religion, because that just reinforces *my* right to say there is no God.

There are some people who think freedom to use drugs means that everybody would be doing drugs. But if you told me you had absolute proof that, if all drugs were legal, more people would do them and it would do more damage to their lives—if you told me that, and I believed you, I would still want them to be legal. Freedom is more important than taking care of people. Plus, my chances of being hurt by someone on drugs are infinitely higher when drugs are illegal.

People who smoke marijuana aren't, in any way, shape or form, bad people—but they're put in a situation where they have to, by definition, become criminals.

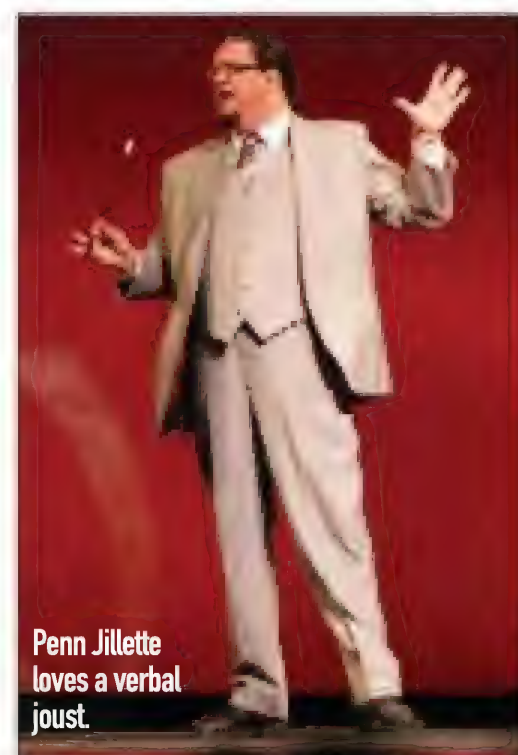
**How do you personally feel about smoking marijuana?**

I don't know if smoking marijuana is good for you. [Laughing] I don't even know that *not* smoking dope is the right choice for me—I might have missed out on many insights, much pure, hedonistic pleasure and much camaraderie. So if you ask me, I can't even answer you what the fuck is best for *me*. Expanding that to what's best for my kids is very difficult. When I go on to what's best for 300 million people [laughing], I haven't got a fucking clue. So my whole view is, it's too complicated a question for government to figure out. Let's agree that we probably shouldn't rape people, probably shouldn't kill 'em, probably shouldn't steal shit. And after that? I don't know.

If Lou Reed hadn't done heroin, would the music of the Velvet Underground have been that good? Would he have the steely clarity and skill that he has now if he *hadn't* gone through that period? Who the fuck am I to say drugs are bad when Charlie Parker played better than any

human being that's ever been alive, and was more fucked up? [Laughing] I mean, Louis Armstrong invented popular song in the United States of America, and many biographers believe that from the age of 14 until the day he died, there was not a day he wasn't stoned.

You can say the same thing for Willie Nelson. Think about the joy he brought to people. Take just Willie Nelson and Penn Jillette—okay, you tell me: Which one of these guys is living his life right? I bet if Willie was in the room, he'd agree with me. And I don't know.



Penn Jillette  
loves a verbal  
joust.

**'I don't even know that not smoking dope is the right choice for me—I might have missed out on many insights.'**

**Do you have disdain for pot smokers?** There are certain pot-smoking qualities—stereotypical pot-smoking qualities—that I find very repulsive. But that's a very different thing. Saying the stereotype of pot smokers is something you don't like is a little like saying the stereotype of Jews is something you don't like. It's not true to begin with! So why would you jump in on it?

I do not like to be around people who are stoned. I do not like to be around people who are drinking. But that's still a very extreme position.

It's shocking to me that somehow our entire culture pretends at some level that marijuana use is an "outsider" thing. That offends me deeply. The president of the United States of America says that he smoked dope, and I believe he also admitted to using other drugs as well. The numbers are enormous, and yet in our culture there's still this characterization of pot smokers as being "outside." And I don't like it. Let's admit that pot smokers are the



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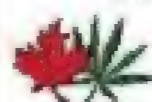
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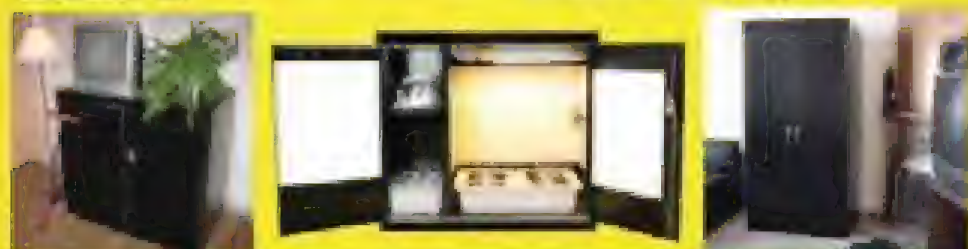
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THE HIGH TIMES INTERVIEW

majority, so I can go back to where I'm comfortable—which is being an outsider! [Laughing]

**What was your stance in the last election?**

As a libertarian, I didn't really have a dog in this fight. I'm as pro-freedom as you can possibly be; I always want to go in the direction of freedom. And really, since FDR—some would say right after *Washington*—the presidential powers have gotten bigger. We have wars that aren't declared, with presidents sending troops in. I was against Bush going into Iraq, and I'm against Obama sending 17,000 troops into Afghanistan. So I'm amazed, from my odd little point of view, that

**The humor of Penn & Teller is macabre, sometimes shocking. How did that develop?**

My sense of humor—I don't know why I'm choosing to be so honest—the sense of humor was always accidental with me. I was always drawn to ideas, always wanted to be a writer, always was fascinated by the underlying idea of everything in art. All I cared about is what the ideas are and what's supposed to happen.

Then it turned out that, whenever I did *this* stuff, I was just more comfortable.

**Some have called Penn & Teller's magic revolutionary.**

The idea was that magic had been so

deeply insulting—

Jerry Seinfeld says, "All magic acts are 'Here's a quarter, now it's gone, you're a jerk, now it's back, you're an asshole, show's over.'" We wanted very much to say to people: "All that stuff you disliked about magic? We're trying to do something different."



Penn & Teller create magical mayhem.

## "You can discuss magic in discussing how we ascertain what is true."

You took a lot of flack in the early days for revealing the secrets of tricks.

liberals that I know attack Bush's policies and conservatives that I know attack Obama's policies—and they're so close! [Laughing] Bush grew the government more than any other president ever has, and Obama's going to continue that. They're in league with the idea that someone in power can take care of us.

**Let's talk about magic.**

I started out as a juggler. And that is significant to me, because jugglers and magicians are always thrown together in lousy variety acts. Often, they're the same person—yet, conceptually, they couldn't be further away.

Jugglers, by definition, are doing what they claim to be doing; a magician, by definition, is not. Teller had the idea that, instead of dealing with magic as "We don't really know what could be possible" or "Here's a fantasy I have," you could deal with magic by talking about the idea of *trickery*. Forgive me for being so pretentious, but the subject becomes epistemological: You can discuss magic in discussing how we ascertain what is true.

A lot of that was manufactured.

Many of the old-timers in magic always loved us, always understood us. Any guy who had done *The Ed Sullivan Show* understood us tremendously. Then there was the middle-aged group, who kind of didn't get it. But we did something that's very important—a guy would write something trashing us in a newsletter that went out to 2,000 people. Then we would give that newsletter to Letterman, and he'd read it in front of eight million people. Then we'd act like we were being persecuted. [Laughing] I mean, we had a much bigger forum. It was very playful in the magic community—and outside of the magic community, people kinda dug it.

Salvador Dalí had a great quote that I will not get exactly right. He said something to the effect of—and I'm sure the wording is wrong on this—"Every artist should hate every other artist in order to develop their own style. But they should not be surprised when the audience doesn't." ✨

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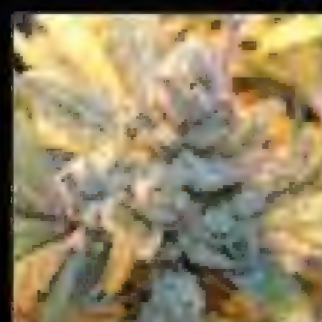
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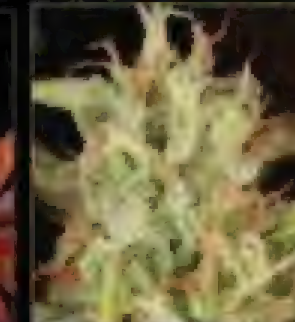
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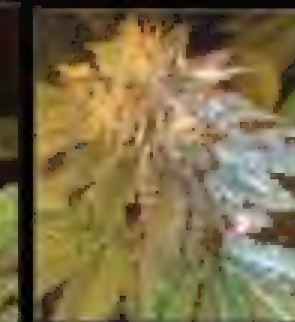
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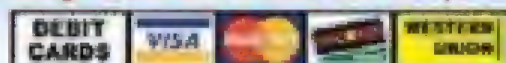
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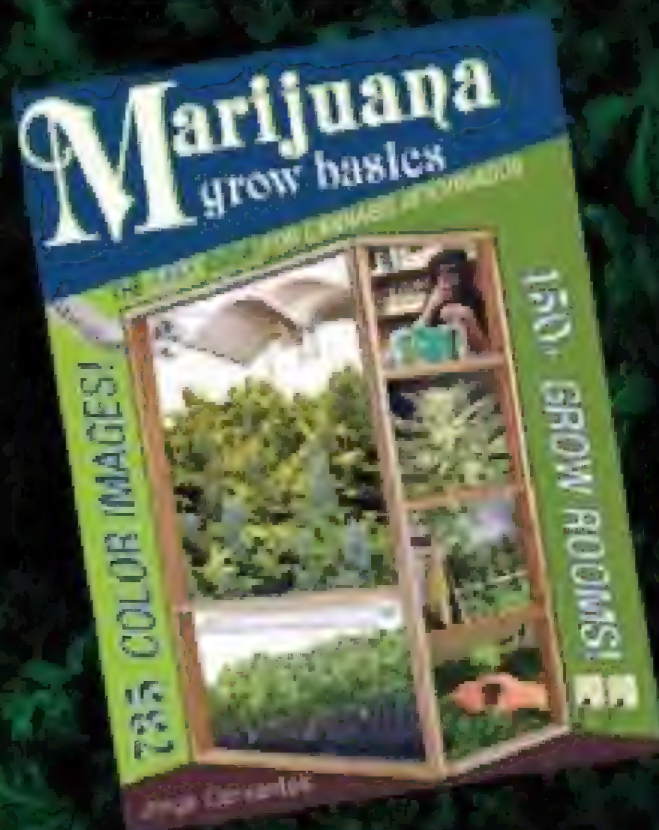




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# GRANOLA FUNK BARS

**"High"-energy healthy snacks that you can take anywhere! By Ashley Boudreaux**

I've become obsessed with sucking the life force out of fruits and vegetables. It started with a favor to some friends—I had a truck; they had a teetering pile of random used furnishings they couldn't possibly need, much less transport, but had purchased nonetheless. When I arrived at the nonprofit thrift store they had just decimated, I found an adorable little designer purse that I snagged for a buck. Inside the purse was a \$10 bill. My initial flush of excitement was tempered with a twinge of culturally Catholic guilt, so I immediately spent the cash on a new food dehydrator that some newlywed couple had apparently *not* put on their gift registry.

Of course, one person's wedding trash is another person's passport to lightweight, nonperishable food supplies for road-tripping/extended camping/hurricane season. For the record, I'm ridiculously excited about cramming brittle, lifeless kiwi slices into my emergency supply box/backpack/glove box/adorable little designer purse. Ever since attorney Don Wirtshafter, formerly of the Ohio Hempery, turned me onto his Volcano vaporizer *and* homemade dried fruit years ago in Mexico (back when he was threatening to canoe with me in the Amazon Basin), I've toyed with the idea of drying fruit at home.

For the record, Don is much better at this mummification-of-food thing than I am. I guess he needs to be, since he's a fearless explorer of such remote and savage terrain. But I'll master the process eventually, and then it'll be war. I've been daydreaming about toting 50 pounds of random dried fruit to the Rainbow Gathering and calling Wirtshafter out—it would be the Phat Kids East Kitchen vs. Whatever Forest Kitchen Don Calls Home. Yes sir, we'd have us a true hippie standoff,



our fingers twitching in anticipation, hovering mere inches from bottles of exotic juices and piles of strawberry chips, poised to rehydrate the withered masses. Then we'll see who makes the better pancake in the woods.

Of course, I'll need to kidnap the HIGH TIMES tepee before any of this happens. You hear me, Steve Hager? I know you're my boss and all that, but Jiva the Queen of the Rainbow Gypsy Tribe says that tepee belongs at the Rainbow Gathering, with or without you. So if you aren't planning to pack up your family and peace pipe to head west this summer and represent the stoner nation, don't be surprised when a feral pack of hippies dons camouflage face paint and belly-crawls through your yard to temporarily abscond with your conical accommodations. It *is* a company tepee, right?

But for now, I should probably just find a way to get my family excited about eating crunchy blackberries here at home, since they're generally consumed with trepidation whenever I try to feed them food with alien textures. I'm thinking granola bars: I could totally sneak zombie fruit into granola bars. I could sneak a lot of things into granola bars, actually—including a little something that will ensure they never say a word about the damn brittle fruit I've been stockpiling. ✨

## GANJA GRANOLA BARS

1/2 oz commercial shake or 1/4 oz kind bud  
1 stick (8 tbsp) of salted butter  
1 egg  
3/4 cup dark brown sugar  
1/3 cup honey  
1/2 tsp almond or vanilla extract

3 1/2 cups rolled oats  
1/3 cup chopped nuts  
1/3 cup dried fruit  
(raisins are fine, but personally I'm using blueberries)  
1/3 cup chocolate chips

Simmer the ganja and butter in a double-boiler for one hour. Strain well and set aside. Lightly toast the oats and nuts in the oven. Cream the sugar, honey and butter together. Add the egg and extract. Mix completely. Slowly add in all the dry ingredients, making sure everything is consistent throughout. Spoon the entire conglomeration into a greased 9" x 13" pan and smoosh it all down firmly and evenly. Stick it in a 300°F oven for 20 to 30 minutes, or until the edges are golden brown. Remove from oven. Smoosh it again (be careful—it's hot). Allow it to cool, then cut and either wrap the bars individually or layer them with wax paper in an airtight container. Stones 14 generously.



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- 1. "The Look"** - You want to make sure your cabinet looks like one, not like a futuristic time machine with controls on the front. Make sure it is 100% light tight, 16 gauge "Cool-Running" metal, and looks like it belongs in your house.
- 2. Dimensions** - Be aware of misleading pictures. Realize that 24 inch deep cabs grow 33% more than generic 18 inch deep ones. The major factor of how much you grow is by Height, Width, AND Depth of your cabinet.
- 3. Airflow** - Lights are PROPERLY air-cooled by bringing air in from outside the chamber, then pushed out as well. Some only bring air from inside the unit itself, then through the light. You do not want this. Also, make sure your cab is "Cross Corner Ventilated" AND has an adjustable internal circulation fan. The output air should go out through a professionally made carbon filter.
- 4. Ease and Expertise** - Make sure your system is user friendly and the company knows what they are talking about. Your cabinet should come and look professionally assembled, automated, and easy to grow.
- 5. Net trellis and adjustable lights-** you grow up to 50% more when using a net trellis. A bonus is if both the light and veg. chamber is adjustable to allow for maximum height and lumen intensity.
- 6. Comes with Everything-** Let them shop for you. You want every possible thing you need to start growing the day you get it, including an automated Cloning Machine, nutrients, DVD, TDS meter, PH kit, Make sure it is fully assembled, automated, and ready to grow with ease and confidence.
- 7. Good Warranty-** Make sure the company backs your investment with at least a 3 year warranty and excellent lifetime customer support - for free.
- 8. Made in USA** - That is if you are in the US. For obvious reasons, such as supporting the economy, it also means not worrying with US Border Customs and such when dealing with your warranty and replaceable parts.
- 9. Customer Support-** Prompt phone and email service, knowledgeable support and replies. Accredited by the Better Business Bureau with little to no complaints over the past 3 years. Friendly and helpful is also a must.
- 10. Options-** Make sure you have the choice to switch from soil to hydro, and can decide between ebb n flow for taller units, and aero for the shorter ones. Pay attention the details. Now save a year or two start growing!



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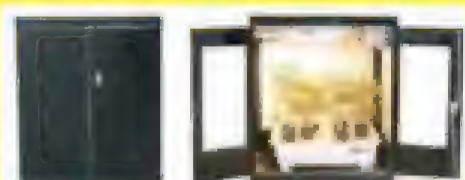
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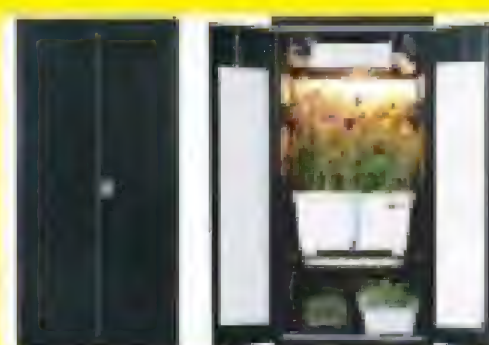
S-File has 2 chambers:  
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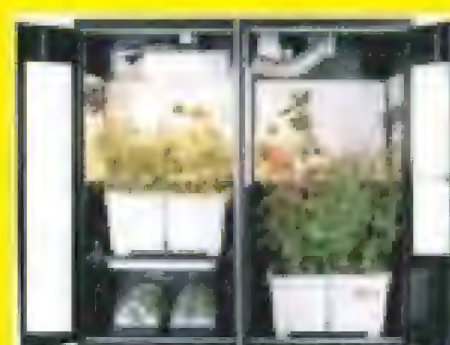
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HIP HOT TIPS



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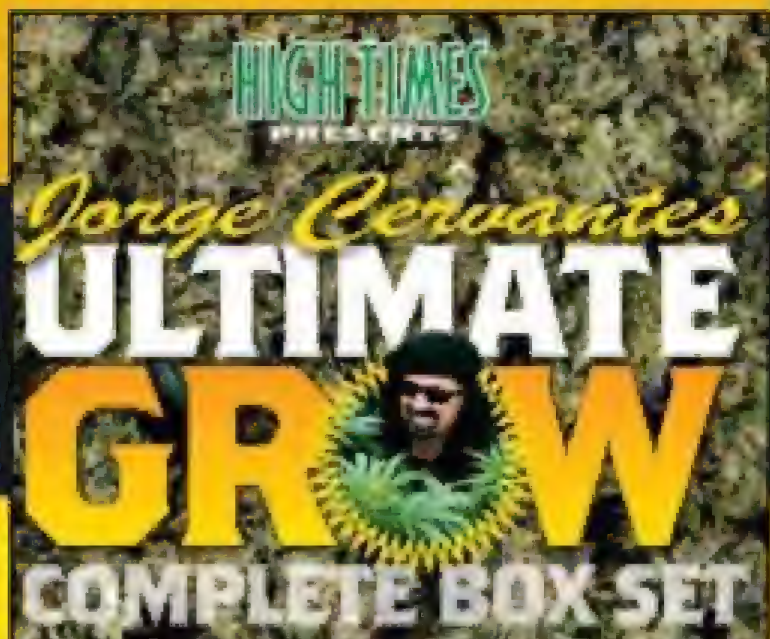
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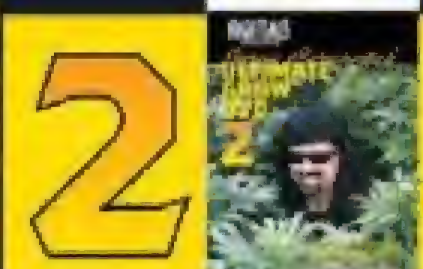
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# WHEELS

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PIX OF  
THE CROP  
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CANNABIS  
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## PIX OF THE CROP



### BUBBLING HOT

Sour Bubble Bx3 (back-crossed three times) on day 34 of flowering.—Poey



### JAR JAR BONGS

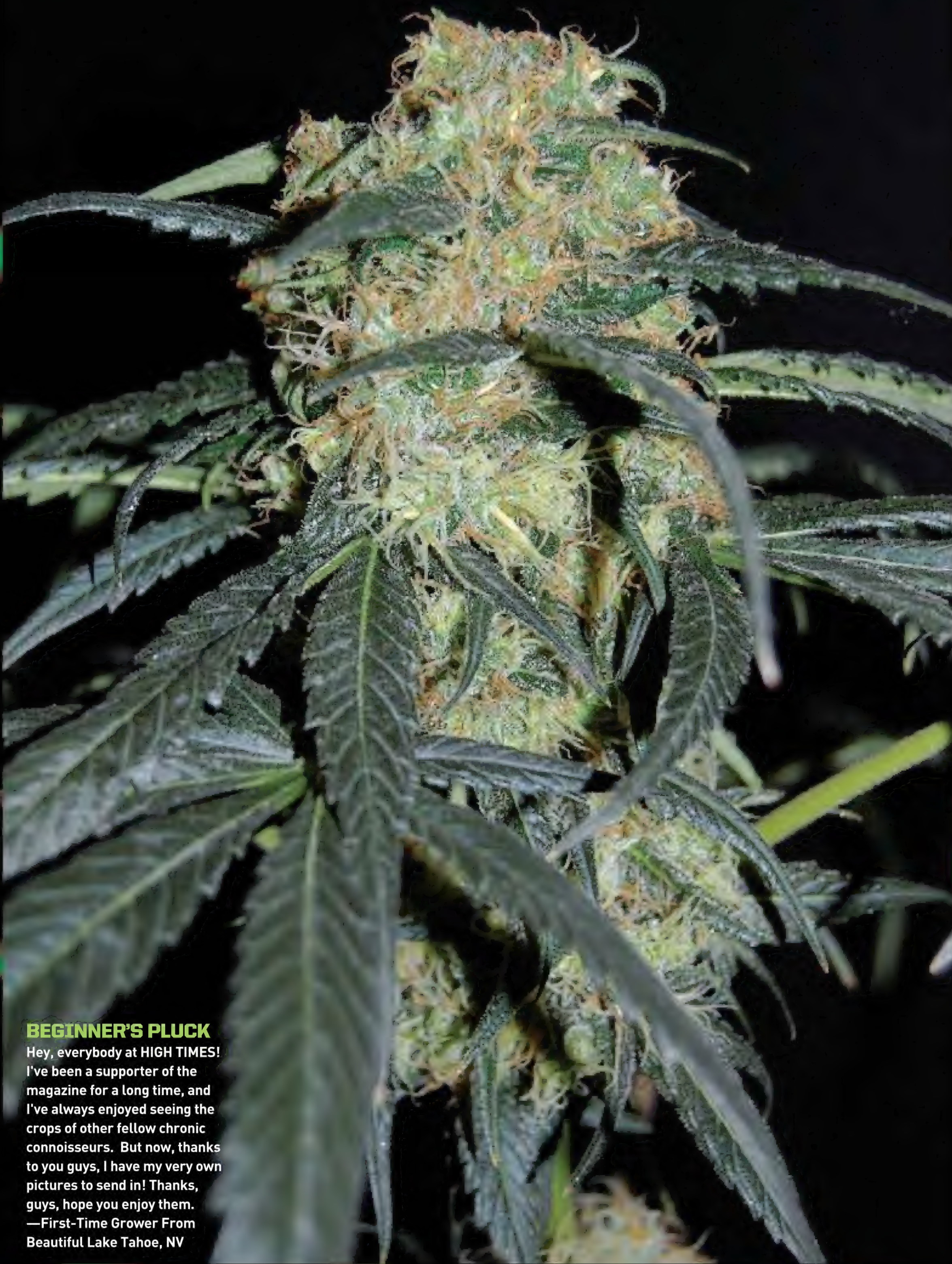
I love to open up my jar of goodies.—JJB



### SOUTHERN LIGHTS

Peace from Charleston, SC! This is Grape Diesel Funkytron.—Swiftmud





### **BEGINNER'S PLUCK**

Hey, everybody at HIGH TIMES! I've been a supporter of the magazine for a long time, and I've always enjoyed seeing the crops of other fellow chronic connoisseurs. But now, thanks to you guys, I have my very own pictures to send in! Thanks, guys, hope you enjoy them.  
—First-Time Grower From Beautiful Lake Tahoe, NV





## REAL KUSH

I finally have gotten around to posting up some new pics for you guys. This time it's the SFV OG Kush, but from seed. This strain is the work of the Cali connection at [thcfarmer.com](http://thcfarmer.com). Swerve is the breeder, and he knocked this one out of the park. The new cross has the "lemon fuel" dankness that the SFV OG Kush is famous for, and the potency when smoked is pure fire. Looks and grows just like the clone-only we all know and love, and thanks to the Afghani #1 dad, she has a quicker finishing time. I can take this one between eight and nine weeks in hydro compared to the clone-only version, which is over 10 weeks. I hope you enjoy seeing the pics as much as I did taking them. Thanks!  
—Highagain



## HOLY COLA! (left)

Grow big or go home.—Large and In Charge



## ZEN BUDDHA (above)

My friend wanted me to take a photo of his weed. Being an amateur photographer, I wanted to use a prop instead of a boring bud, hence the Zen candle/rocks.—Otaku

Pix of the Crop is reader-driven. Your submissions make all the stoners of the world dream of kind nugs. Send pictures (no Polaroids), tips, questions and stories to: HIGH TIMES, 419 Park Avenue South, 16th floor, New York, NY 10016. Digital photos can be e-mailed to [maibag@hightimes.com](mailto:maibag@hightimes.com) and must be hi-res for publication. Remember, by submitting photograph(s) you thereby grant permission to the publisher to reprint photograph(s) in HIGH TIMES, as well as in any other Trans-High Corp. publication.



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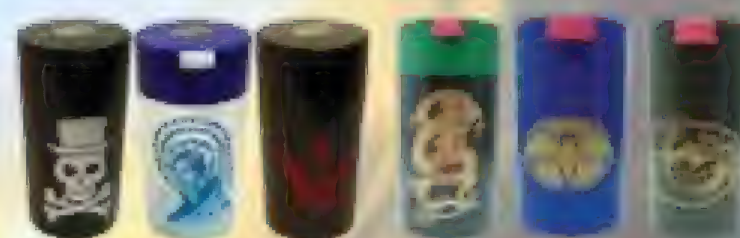
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BY NICO ESCONDIDO

# EVERYTHING MEDICAL & MORE

Welcome to our latest mini-section, devoted wholly to medicinal strains, news, uses, developments, activism, politics ... everything and anything, really, that is medically related to marijuana. This is your new *Cannabis Clinic*!

## Smoke & Your Health

Everyone has his or her own preferred method of smoking. Some folks like glass, whether it's pipes, bubblers, bongs or chillums. Others like joints or blunts. Still others have dropped all the traditional modes of smoking and taken up the vaporizer as their method of choice.

But from a health standpoint, the matter of cannabis ingestion takes a bit of a turn. For starters, a truly healthy alternative for taking medication is the way our grandparents did it 50 years ago. That's right, oral ingestion—over the lips, down the throat and into the belly, just like Grandpa's shot of whiskey. But while eating pot foods may be the healthiest choice, there are other considerations to take into account.

Just as smoking pot affects each individual differently, eating cannabis can have more drastic effects from one person to another. Thanks to variations in individual metabolism, everyone digests food differently, at different speeds and with different absorption rates. These factors, in turn, can make a big difference in the effects that pot food has on a person.

We don't mean this as a deterrent for those wishing to try a pot brownie or candy bar. Rather, it's merely a cautionary note to go slow with pot food at first. While some people have the same or a similar reaction eating pot as they do smoking a joint, others may experience much more or much less of a high. While some people experience little effect from pot food, others could experience much more intense effects, including trippy hallucinations, extreme fatigue or even an upset stomach.



Resinous to the touch, skunky to the smell, super for your head: Super Skunk!

## MEDICINAL STRAIN OF THE MONTH SUPER SKUNK

A derivative of perhaps one of the world's most popular strains is now one of the world's most potent medicines. Super Skunk, aptly named for its super *indica* properties, is the genius child of a Skunk #1 backcrossed with its original heritage—a pure Afghani. This makes the Super Skunk virtually 100% *indica*.

Although different varieties exist around the world, in North America two types dominate the market—a sweeter version and a really skunky sour version. The latter is usually associated with the raw, more potent phenotype. Because it grows so well organically, its popularity is heightened in the United States, where many medical dispensaries choose to carry organically grown Super Skunk.

Patients like the Super Skunk for its relaxing qualities and mellow stone. It tends to stimulate appetite and induce giggles (very stereotypical cannabis). In the US, numerous hybrids of this strain also exist, some of which have been crossed with *sativas* to produce a more balanced and focused high.

Medical growers tend to favor the strain because it does well outdoors and grows with vigor. Ambitious growers can still find remnants of the original Skunk #1 phenotype in parts of California, where the strain was heavily developed (and inbred) in the olden days of breeding.

Patients making purchases at medical dispensaries should speak with the shop's personnel about the dosages, potency and effects from the various edibles available. Most dispensaries know their cannabis chefs well and can talk to patients on a variety of top-

ics involving the preparation and consumption of pot foods.

## The Debate Over Vape

One of the latest products in a long line of smoking paraphernalia is the vaporizer. And while the technique of vaporization has

been around for quite some time, the actual device has only been perfected relatively recently.

Patients may have noticed Volcano vaporizers in medical clinics and smoke shops around the country and even overseas. It's the most popular vaporizer on the market—but also the most expensive. Vaporizers, in general, are one of the safest and healthiest means for ingesting cannabis available today. The Volcano unit is a well-engineered and well-manufactured tool that heats cannabis to varying degrees short of actual combustion, so that only the resin glands on the outer part of the buds are evaporated into an inhalable vapor.

This is a healthier alternative than burning entire buds, because a patient's lungs don't get anywhere near as much tar or resin as they do from burned vegetative matter. However, therein lies a small snag to the process: Because vaporizers volatilize cannabis by blowing heated air over the buds, only the trichomes on the surface are evaporated and consumed by patients.

We know that cannabis possesses over 50 active cannabinoids (actually, it's closer to 60), all of which influence the high or stone of a given strain. On top of that, there are other components in cannabis, known as terpenes, which are locked away within the plant's essential oils and resins. Terpenes, which are found in many plants besides cannabis, are a major component of the resin and affect the way that certain strains smell and taste. They can also affect the high of each strain.

Not all terpenes—or even the major cannabinoids, for that matter—reside on the most superficial or external levels of marijuana buds. So when cannabis is vaporized, especially at lower temperatures (which is the healthier choice), not all of the ingredients that go into producing a specific plant's high will be present in the vapor. Thus, the debate goes on as to whether or not vaporizers can deliver the true high of a strain or the full medicinal effects desired by patients. One thing is certain, though: Cannabis vapor is still a healthier alternative to pure smoke any day of the week. 🌿

Got medical questions? Pass 'em over to Nico at [nico@hightimes.com](mailto:nico@hightimes.com).



# HIGH TIMES MEDICAL MARIJUANA DISPENSARY DIRECTORY

Consult your local physician about issues associated with medical marijuana use.

## ALASKA

State Registration Program  
Alaska Department of  
Health and Social Services  
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http://egov.oregon.gov/DHS/  
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http://www.health.state.ri.us/  
More helpful information:  
http://ripatients.org/

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(802) 241-5115  
www.safeaccessnow.org/ar-  
ticle.php?id=2012

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www.Seattlegreencross.org

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Olympia, WA 98504-7890  
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http://www.doh.wa.gov

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National Organization for the Reform of Marijuana Laws  
1600 K. Street, NW, Ste. 501, Washington D.C. 20006



# REEFER REVOLUTION

Learn to say 'Yes We Cannabis' at the 2009 NORML Convention in San Francisco

Please accept my invitation to join the National Organization for the Reform of Marijuana Laws (NORML), as well as HIGH TIMES magazine, at our 38th annual national conference, September 24 to 26, in San Francisco. We'll use the occasion to mightily celebrate cannabis, review effective political strategies for marijuana-law reform, and examine the burgeoning medical-cannabis wellness industry.

Nowhere else in this hemisphere can you participate in such a large, well-attended pro-reform conference focused exclusively on cannabis. And when better to attend a NORML conference than in this historic year, which has already seen a positive sea change in the White House; a new US attorney general who immediately backed away from trying to enforce federal laws against medical-cannabis providers; a reform-minded police chief from pot-friendly Seattle picked as the Drug Czar; more states than ever before passing pro-reform legislation and initiatives; a wave of columnists and editorial boards coming around to support actual *legalization*; and a national financial crisis that has compelled a serious discussion of legalization's myriad economic benefits. Most importantly, more and more cannabis consumers have finally started to get involved in their own liberation.

Join this rising green tide at NORML's national conference and you'll enjoy some terrifically engaging panel discussions and highly motivating speeches from the most famous, hard-working, intelligent and committed cannabis-law-reform activists, medical professionals and legal experts in the country. America is on



Bud city by the bay.

the brink of some serious social and legal change regarding the sacred herb, and we need your continuing support to end prohibition once and for all.

## Emerging Cannabis Consensus

Two recent surveys indicate that 58 percent of Californians favor legalizing cannabis, as do 52 percent of voters nationwide—in both cases, a very large increase in public support. In fact, these fragrant winds of change are likely what prompted former pot smoker and current California Governor Arnold Schwarzenegger to

declare: "I think it's time for a debate [regarding taxing and regulating the sale of cannabis to adults]. I think all of those ideas of creating extra revenues, I'm always for an open debate on it."

So come to California and see what a future with legal cannabis has in store when you tour the San Francisco Bay Area's medical-cannabis wellness centers (the city of Oakland already taxes medical cannabis), learn from the grow masters at HIGH TIMES how to cultivate your own, and otherwise have a truly delightful time at NORML's "Yes We Cannabis" conference.

What are you waiting for—cannabis to become legal on its own? That's up to you and me—and all our family and friends—to make happen! NORML's 2009 conference is where the next stages of the long-anticipated reefer "revolution" will be plotted and planned.

Allen St. Pierre is the Executive Director of NORML. For information on becoming a member, or to register for the 2009 conference in San Francisco, go to [www.norml.org](http://www.norml.org) or call 888-67-NORML.

## FREEDOM FIGHTER

### Georgine DiMaria *Here she comes, Miss Cannabis ...*

We laughed two years ago when Miss Teen South Carolina tried to explain why 20 percent of Americans can't find the US on a world map. And we cringed this year when Miss California shared her views on gay marriage. But now, finally, there's a beauty-pageant winner whose speeches we can all be proud of—Miss New Jersey 2006, Georgine DiMaria.

Ms. DiMaria officially came out of the cannabis closet at the NORML NJ—PhillyNORML 420 Freedom Forum, held on April 20, 2009, at the National Constitution Center in Philadelphia. As the emcee of the event, Georgi revealed that she's been using marijuana medicinally to treat the symptoms of chronic asthma. Her speech can be heard on the April 23 episode of the NORML Daily Audio Stash.

Georgi has been living with asthma since childhood, when her attacks were so severe that she had to be home-schooled. As an adult, she's found medical marijuana extremely helpful, but had previously kept her use secret, especially while in the high-profile spotlight of the Miss America pageant.

Currently, Georgi is working with her brother Fred, an attorney, and NORML New Jersey ([www.normlnj.org](http://www.normlnj.org)) to win passage of a medical-marijuana bill in that state. She has also served as a spokesperson for the American Lung Association, and emphasizes that she doesn't condone smoking—instead pointing out that edible and vaporized preparations of cannabis help medicinal users avoid all the harmful effects of smoking.

As of press time, New Jersey's medical-marijuana bill had cleared its first major hurdle when it was passed in the State Senate. If the bill passes in the Assembly as well, the governor has already indicated that he'll sign it into law, making New Jersey the nation's 14th medical-marijuana state.

Russ Belville is NORML's Outreach Coordinator and hosts the NORML Daily Audio Stash podcast at [www.norml.org](http://www.norml.org).



Georgine DiMaria

## Ask Dr. Mitch



Dr. Mitch,  
Are hemp seeds low-carb?

Fred Atkins

Hi Fred,  
Shelled hemp seeds are roughly 12 percent carbohydrates, which comes to about six grams in a 50-gram serving. If you're on a low-carb diet, you should know that about half of these carbs are from fiber and won't alter your blood sugar. The seeds are also a great source of vitamin E and trace minerals like manganese.

What's the best way to store your stash?

W. Beaver

Hi W.,  
The key to storing anything perishable is to keep it dry, dark, cool and free from air. The best results in published work I've seen found that THC levels dropped by only 7 percent after nearly a year in a dark, dry fridge set at a chilly 41°F (5°C). But at a much balmer 68°F (20°C), the THC level dropped twice as fast—and exposure to light tripled the loss.

You mention cannabidiol sometimes. What is it really?

Ralph Malph

Hi Ralph,  
Cannabidiol is a cannabinoid like THC, meaning that it's a molecule produced by the cannabis plant. It doesn't really have any intoxicating effects, though it can be a bit sedating. It does have amazing potential as a medicine, however: It shows promise in the treatment of seizures, brain injuries, psychosis, anxiety and cancer. Yet despite evidence, cannabis is still listed as a Schedule I drug, meaning that it's considered dangerous and has no approved medical use.

I feel like marijuana makes me talk less but communicate more. Do you know what I mean?

Kitty K.

Hi Kitty,  
I think so, but we'd have to be smoking pot to be sure! Actually, 20 years ago, a lab test in New York City found that smoking herb tended to increase the time that people spent together while doing the same activities, but it also made them talk less.

Dr. Mitch Earleywine, Ph.D., is an associate professor of psychology at SUNY Albany. He is the author of *Understanding Marijuana* and *The Parents' Guide to Marijuana*. Got a question for Dr. Mitch? Email him at [420research@gmail.com](mailto:420research@gmail.com).



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*This is the forbidden truth, the unspeakable taboo—that evil is not always repellent but frequently attractive; that it has the power to make of us not simply victims, as nature and accident do, but active accomplices.*

—Joyce Carol Oates, *Haunted: Tales of the Grotesque*

# MONSTER

The glass pipes of the artist known as Ghost scare the shit out of tokers. Marijuana becomes a macabre experience when you toke on Frankensteins and skulls.



# PIPPES

Photos by Ryan Miller & Dan Skye

What's the proper stoner etiquette when someone passes you a pipe that is so hideous, so grotesque, that using it to get high actually seems more repellent than staying straight? What do you do when the pipe you're expected to smoke from causes you to recoil—in other words, when it actually makes you scaredy-fraid? And we're not talking here about some grimy, crud-caked bong that hasn't been cleaned since the Clinton administration, but rather nightmarish pieces that will influence the effect of every toke you take.

Currently, there exists a genre of smokeware available for those who prefer a dollop of horror when getting high. At a recent "tobacco accessories" convention, stoner art lovers flocked to one particular booth showcasing an absolutely alarming array of gruesome glass: Frankensteins, weird skulls, exposed brains sliced by scythes and, scariest of all, a zombie Hitler.

But do these ghoulish pipes actually sell?

According to Ghost, the glass artist primarily responsible for this freak show, the answer is a resounding yes. "Despite the recession," he says, "I'm having my best year ever."

He's been working behind the torch for nearly six years now and has developed into one of the industry's premier glassblowers. "I've always been into art of any kind, and it's been great to be able to do this," he says. "I'm buying a house. My family and I are comfortable—but most important, I'm happy!"

Be very,  
very afraid.





# MONSTER PIPES



Top artist Banjo exhibited this headhunter at the "Suck On It" pipe art show in Chicago. It's actually a sherlock. The headdress is the bowl and the left arm is the stem.



Star glassblower Clinton created this blue dragon sherlock. It boasts amazing functionality when it's upright, and weighs over 4 lbs.

You'd never guess that looking at his pipes, however. "I guess I just have a different perspective on life," Ghost explains. "People see a butterfly and say, 'Wow, that's a beautiful creature!' But have you ever seen a butterfly up close? It's the creepiest-looking fuckin' bug ever! I can look at simple things and see something dark. I guess I'm just messed up in the head." He adds with a laugh: "I can take simple objects, look deep inside them and find the darkness."

He cites top artists like Clinton and Banjo (whose pot-leaf bong graced the March '08 cover) as inspiration. But Bear Claw, whose work has often appeared in *HIGH TIMES*, transported Ghost to the next level. "Bear Claw's work really floored me—crazy little creatures! That's when I saw the potential of glass art and where I could go with it, not just be a production guy. I saw the true art form."

Glassblowing is perhaps closest to animation, wherein the creator's most soaring and disturbing visual flights of fancy can be made real. But animation exists only on projected film or video; glass art is tangible—and, for our purposes, smokeable.

Ghost's first attempt at a Frankenstein was ambitious. He tried to create his birth with electrodes surrounding the head. Ghost uses glass powder in most of his pieces. The eyes are pre-made millefioris; a tungsten pick was used for facial features.



This dragon motorcyclist is another product of Banjo's imagination. It's a waterpipe with wheels that move, accessorized with spinners.





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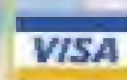
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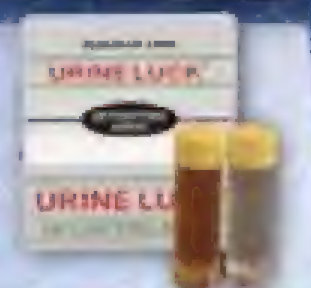
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# MONSTER PIPES



From Ghost's "Godfathers of Horror," these 18 mm. tube slides are just smaller than your fist. Ghost made them big in order to allow for necessary detail in facial features.



Ghost's voodoo doll was created using glass powder to achieve a seamless finish. A hidden bowl piece is disguised by the skull resting on the hand.



However, the functionality of these pipes seems to be purely theoretical. For one thing, they invariably cost a fortune—and shattering one, we guarantee, will be an emotional experience. For another, if you do actually manage to smoke from one, you'll find cleaning it next to impossible.

Even so, the demand for high-end, often outlandish smokeware has only increased in recent years, and many art shows now feature exhibitions by the top glass-pipe artists. As far as gifts for stoners go, there is perhaps no better item extant. But does a brain being cleaved in two, with two bulging eyes gaping in terror, really show a fellow toker how much you care?

"I don't know," says Ghost. "Maybe pipes like these are just a good way to get revenge."—Dan Skye

"The Scorpiad" is a 16" tall diffused bubbler. Ghost used a faux wood effect on the horns surrounding the piece using a tungsten pick and glass powders, and finished it off with a light sandblasting.





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# THE WAR ON SCOTT WALT

By Chris Simunek

**Scott Walt is not a murderer or rapist or even a dealer of harmful drugs, yet he's been in federal prison for over 15 years. His crime? He sold a plant that grows wild out of God's green earth.**

Sometime around October 3, 1994, Scott Walt went surfing in the Pacific Ocean, as he did nearly every day—a luxury afforded him by his life as both a carpenter's foreman for a large government contractor and a marijuana dealer.

The waves had been his passion since he was nine years old, growing up in Encinitas, CA, and he felt lucky that he was able to spend as much time on the beach as he did. It would be hard to argue that, up to that point, Scott's life had been anything but a success. Eight years before, he'd married Dawn, a beautiful blonde California girl, and they now had two children who were just starting school. The family went to Club Med twice a year. Scott had bought a house on a lake stocked with bluegill, catfish, bass and perch; his wife drove a Lincoln Continental, though Scott, a nature lover, preferred his Ford F-350 four-by-four.

So there was nothing particularly extraordinary about that trip to the beach one day in early October 15 years ago, other than the fact that Scott hasn't surfed or even seen a beach since then.

Around the same time that Scott was enjoying the ocean for the very last time, Jurgen Hans Thode, a courier within the marijuana business that Scott was connected to, was selling him out to the Feds. Thode, a Vietnam vet, lived in a world of illusion. Though little more than a mule, he fancied himself the Tony Montana of marijuana—the problem was, he lacked heart and street sense. When Thode went to pick up 57 pounds from a group of Mexicans, he had no idea the Feds were on to him. He flipped the moment he was caught. Then they took him back to his house and plotted the ruination of Scott Walt's life.

Scott Walt's ocean-themed art.



Scott and Sabina.



That night, Thode called Scott and asked to borrow \$1,200 so he could go to Minnesota to make a delivery. The next morning, Scott went to visit him. While they were in Thode's garage, Scott noticed undercover cops across the street. Sensing a setup, but knowing that he had no weed on him, either in his truck or at home, Scott figured he was in the clear and turned to leave. Thode asked him how much he should charge on his next delivery. Shrugging him off, Scott said, "I don't know—800 or 850," then got in his truck and split. Two sheriff's cars rolled up on him at a stoplight, and that was the end. They put Scott in a car, drove into an alley and handed him over to the Feds. In an attempt to flip Scott, one of the agents told him: "OJ has a better chance of getting off." Scott kept his mouth shut, but the agent's comment proved prophetic.

The Feds tore through his house, but found nothing in the way of drugs, scales or paraphernalia—only \$7,500 that came from the Mary Kay Cosmetics business that his wife ran from their home. The agents told Dawn that Scott would be out on bail in a few days. He hasn't been home since.

While Scott was sitting in a federal lockup in San Diego, the Feds took Thode to Minnesota to set up

**He's been incarcerated for 15 years and is only two-thirds of the way through his sentence—all on the testimony of one man who was caught with 57 pounds of weed in his hands.**

a number of buyers. There was something about the limelight that appealed to this Vietnam vet, who envisioned himself the Scarface of sinsemilla. They put him up in a hotel room and, one by one, Thode lured low-level marijuana dealers to their doom. Before testifying against Scott, he participated in "practice" trial against a kid who'd had the misfortune of carrying a 9mm handgun when he was arrested. Thode must have done pretty well, because the kid got 17 years. Then it was back to California for the main event.

Claiming that Scott Walt "ran a drug empire from behind iron gates to shield himself from law enforcement," the US Attorney put Thode on the stand, where he proceeded to spin tales that lessened his own participation and increased Scott's culpability. On the testimony of one man, and with no surveillance evidence, no wiretaps, no marijuana found in his possession at any time—only a few pieces of scrap paper found in Thode's home with numbers written on them—Scott Walt was convicted of being the kingpin of a far-reaching conspiracy to traffic marijuana from the West Coast through Minnesota to parts east. A first, the Feds seized Scott's house, because Thode had testified that he

once saw 500 pounds there (a jury eventually gave it back). They also took his truck, because Thode recalled seeing 100 pounds in it, too. Scott's assets were frozen, damning him to a court-appointed attorney. Aside from the arresting officers, Thode was the government's only witness.

At the end of the trial—after stating that he was hamstrung by mandatory-minimum laws that forced him to hand down a sentence far greater than that given to most murderers—the judge reluctantly sentenced Scott Walt to 24 years and four months in jail. (The Feds had been asking for 30, because the kid in Minnesota was found with a gun.) As for Thode, he did one year in FCC Lompoc, a minimum-security prison camp 175 miles northwest of Los Angeles, and is now quite possibly living in a basement apartment near you.

After a few years, Scott's wife Dawn divorced him; he's had to watch his two children, now 18 and 20, grow up on visiting days. He's been incarcerated for 15 years and is only two-thirds of the way through his sentence—all on the testimony of one man who was caught with 57 pounds of weed in his hands.

Scott Walt is down but not out. He's one of the most positive-thinking individuals you could ever meet. When asked recently about his feelings toward Jurgen Hans Thode, he said: "The universe has a funny way of balancing those things out. I have spent far too many years dealing with this existence to hold any deep regrets for Mr. Thode. I amuse myself (and others) with the proposition that my crime is the lack of character judgment, and my sentence is based on that error."

Scott is currently engaged to Sabina, a woman who understands his situation and will wait for him to get out. With Sabina's help, and in conjunction with his former wife Dawn, he's been raising his kids as best he can from behind prison walls. In his spare time, he paints pictures from memory of the Pacific Ocean, whose waves it was once his passion to conquer. ✨

*This is one in a series of profiles that HIGH TIMES will be doing of people who have been incarcerated for over 10 years in the federal prison system for non-violent marijuana offenses. If you or someone you know is in this predicament and want to tell your story, contact [chris@hightimes.com](mailto:chris@hightimes.com).*



# Med Pot Warning: What Are You Really Smoking?

By Alex Allan Anderson

Are you aware of what you're really smoking? Can you recall a time when you took a hit of what you thought was going to be some great smoke only to find yourself choking and gagging? Even worse it was hard to keep lit, tasted terrible, irritated your throat and lungs and produced a heavy black ash.

Licensed medical cannabis patient and grower Gino Yordanov offers you an insider's look at the direct causes of poor-quality medicine. That's because Yordanov is co-founder of Advanced Nutrients, the only hydroponics company that's logged nearly a decade of cannabis growing research into plant quality, yields and potency.

"I always wondered what caused that stinging harshness in my throat when I medicated myself with buds I purchased," Yordanov recalls. "So I had my team of scientists find out the causes. And here's what they discovered..."

## You're Smoking Too Much Phosphorus

One of the main causes of all that hacking and coughing is plants are grown with too much phosphorus. Another critical finding that made a significant difference was the particular forms of phosphorus and nutrient ratio's used to grow with.

Even more troubling, what are the rest of the fertilizer's essential ingredients "cut" with? Take calcium nitrate for instance it's made up of 15.5% nitrogen and 11% calcium, so what's the other 73.5% made out of?

Well, as it turns out, actually it matters a lot, especially the composition and purity level of that "cut."

"When calcium nitrate is not analyzed or sourced incorrectly, the remaining percentage of filler material slows crop growth and adds harshness to your buds. And calcium nitrate is just one example – what about all the other ingredients in a nutrient? Obviously it all matters.

But here's the most important part... the correct ratios of a cannabis fertilizer's macro and micro nutrients make a huge difference in your medicine's smoothness. Plus it's a known fact that the further you move away from feeding cannabis plants their ideal nutrient ratios, potency and yield rapidly deteriorate.

You see, cannabis uses a small amount of phosphorus during flowering, what it really loves to use is nitrogen and potassium. We discovered this because our scientists have taken thousands of weekly tissue samples from buds, stems, leaves and roots of many varieties using gas chromatography analysis throughout all phases of cannabis growth.

## Nutrient Companies Are Harming You

And to make matters worse, nutrient companies are over-

providing phosphorus in hydroponic bloom fertilizers. And to compound problems, they use high levels of ingredients like mono ammonium phosphate (MAP) or diammonium phosphate (DAP). These harshness culprits will make you cough a lung out. Really, it's that bad. Hey, I realize this may sound a bit self serving but obviously I care about what patients and I are smoking and of course the facts are the facts."



**Licensed Medical Cannabis Grower and Patient**  
*Gino Yordnaov gives you an insider's look on how you'll absolutely ensure you're getting safer, smoother and more potent medicine.*

The good news is Yordanov's researchers found combinations of specialized nutrients, plant and mineral extracts, root enhancers, vitamins, inoculants, growth and bloom co-factors that consistently produce bigger yields, higher amounts of THC, sweeter smelling aromatic compounds and tastier smoother smoking buds.

In fact, when Advanced Nutrients formulas were tested by Dr. Mahmoud A. ElSohly, (Director of the US government's marijuana research farm at the University of Mississippi), ElSohly discovered that Advanced Nutrients increased THC percentages by 40% while

increasing plant and bud biomass by 21% compared to the formulations he was using. *In the interest of full disclosure, Dr ElSohly is now an Advanced Nutrients customer.*

And Yordanov requires his company's scientists and quality control technicians to continually upgrade formulations to produce the absolute maximum bud weight and quality.

## Your Only Clean Safe Source For Pure Grown Medicine

As the only hydroponics nutrients company founder who is also an officially-government licensed medical cannabis patient and grower, Yordanov pledges it's his solemn duty to guarantee Advanced Nutrients produces clean, convenient, yield-boosting formulas that ensure patients' health and safety.

"I want the finest medicine for myself and all patients. Whether you purchase from a medical cannabis dispensary or grow your own, clearly this is so important to your health that you should insist your buds were grown with hydroponics nutrients designed and tested specifically for medical cannabis."

## Ask If Your Dispensary Medicine Was Grown With Advanced Nutrients...

- Because you want your buds to taste great, and you want your buds grown with fertilizers that contain superior sources of phosphorus and contain top quality, analyzed ingredients that don't contain any poor quality filler.
- Because you want your buds to have the highest potency genetically possible and grown with the correct fertilizer ratios of macro and micronutrients.
- Because you want the safest, smoothest smoke and the quality of your health demands it.





This roomful of feminized, auto-flowering AK-47 x Lowryder #2 was planted from seed and is ready to harvest just 70 days later!



## ALL YOU NEED TO GROW

ANSWERS & PHOTOS BY JORGE CERVANTES

### GOOD TASTE

What can I do during the growing process to make my marijuana taste better? Also, what steps should I take to make it fluffier and less dense? Can I start growing in a 5-gallon container and then keep the plant in there five months?

*Canary  
Via Internet*

Dear Canary,  
Strong, sweet, great-tasting marijuana buds are the Holy Grail sought by every grower. After all, French chefs prefer properly grown organic vegetables not because they're organic, but because they taste best. The same is true with marijuana.

The most important thing you can do to make your weed taste better is to keep your plants strong and healthy their entire life, and don't let them suffer stress. For example, an excess of water (or a lack of it) will create stress in plants. Stress can also be caused by an overabundance of fertilizer in the soil: When some elements are too plentiful, they "lock out" other nutrients, preventing them from being taken in by the plant; this also impairs fluid flow within the cells of your plant. Sodium is the biggest culprit here, so use clean water with a low content in sodium and other dissolved solids. Do not let excess fertilizer salts accumulate in the soil. The best way to guard against excess nutrient buildup is to flush

the pots every month with two to three times as much water as the volume of growing medium.

Also, do grow organically: use organic soil, organic fertilizers, and organic measures for pest and disease control. (But remember that organic fertilizers can also be over-applied and build up in the soil.) Keep the temperatures in the range of 70°F to 75°F, and the humidity levels at about 50% both day and night. (The temperatures can fluctuate a few degrees up or down, but in general, the less the fluctuation, the better. At night, the temperature can dip as low as 60°F and cause little stress to plants.)

I'm not really sure why you want fluffy, "less dense" buds. Fluffy or airy buds do not mean that the plants will taste better; in fact, in most cases, fluffy buds are a sign of heat stress and poor horticultural practices—not a recipe for great-tasting buds.

Roots from plants that are started or transplanted directly into 5-gallon containers tend to grow to the perimeter of the container and encircle it. This means they don't penetrate much of the interior soil; instead, a layer of roots forms on the inside perimeter of the container—and, as the container warms and cools, the roots suffer heat and moisture stress. This is one reason why, the longer a plant grows indoors, the more time there is for problems to crop up.

### INDUCED SEX REVERSAL

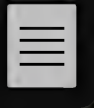
In the past you've mentioned a product called Stamen-it!, but many people seem to be having trouble finding it, including myself. Any suggestions?

*Tek-One  
Via Internet*

Dear Tek-One,  
This is one sexy product! At all seven of the European cannabis fairs I attend every year, at least one person asks me about Stamen-it! I've answered this question before in my column, but since I continue to receive queries about it, I'll answer it again. Only one company produces Stamen-it!, and they have changed their address since the last time I mentioned them. I've added this information to my website, [marijuanagrowing.com](http://marijuanagrowing.com), so that people around the world can have an easier time finding it.

Stamen-it! is used to chemically induce female plants to form male flowers. This kind of sex reversal can also be induced with an application of gibberellic acid—which is dangerous and difficult to use—or of silver thiosulfate solution (STS), which is made from the chemicals used in photography. In the latter case, pre-flowering female cannabis plants are sprayed with a diluted STS and induced to flower with a 12/12-hour day/night light schedule. Pollen-bearing male flowers can be harvested in 35 to 40 days on most strains.







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Medical growrooms can be small, so if you have a place to grow outdoors, you can transplant big clones now in warm climates.

If you're interested in finding out more about STS, just Google the words "silver thiosulfate solution marijuana" and you'll find several websites with instructions on making and using it. But for most people, the best bet is simply to use Stamen-it!, which also induces male flowers. You can order it by contacting [plantaegenomic@live.co.uk](mailto:plantaegenomic@live.co.uk).

However, if you want to avoid using chemicals altogether and have a measure of patience, you can also practice the "Rodelization" method for inducing sex reversal, which was developed by the master grower and breeder Soma. You can find the instructions for this technique on the HIGH TIMES website at [hightimes.com/grow/soma/622](http://hightimes.com/grow/soma/622).

## HIV-POSITIVE MEDICAL GROWER

I am HIV-positive and would like to grow the medicine I need, preferably in an indoor growroom. I live in Kentucky. Should I move to another state to grow legally?

Casey  
Via Internet

Dear Casey,  
I wish you a long life and hope your condition progresses slowly. Growing can be a bit of work if you're frail. Normally, growing indoors is quite simple—however, Kentucky is *not* a marijuana-friendly state. Of the current 14 medical-marijuana states (Alaska, California, Colorado, Hawaii, Maine, Maryland, Michigan, Montana, New Mexico, Nevada, Oregon, Rhode Island, Vermont and Washington), California is the probably the most tolerant towards medical marijuana. There are many growers and patients in California, and much of Northern California is rural, so it may remind you of Kentucky. As a first step, Google the words "medical marijuana California" and you will find many sites to help you with your decision. Also check into the forums on these sites: You can meet helpful people there who can give you a well-informed and realistic local perspective on your potential new home. These sites and forums are also filled with useful information to help you plan your future garden.

My other advice is to keep your crop 100% organic—use organic soil, organic fertilizer, and organic disease and pest controls.

## TOO MUCH LIGHT

I just made a nice growroom, 7 by 7 feet. I have three clones that I'm planning to grow there. My buddy suggests that I use two 1,000-watt bulbs for vegging on an 18/6-hour day/night light schedule and three 1,000-watt bulbs for flowering on a 12/12-hour light schedule. I'll be using Hortilux bulbs with Lumatek ballasts. The room is covered in reflective material. The electric rates in my area are pretty high (22 cents a kilowatt), and my current electric bill is approximately \$100 a month. My projected electric bill following the above schedule, with AC, exhaust fans and so forth added, will be approximately \$450 a month. Would it be practicable to go with one less bulb for vegging and flowering to keep my electric bill bearable and still have a decent harvest?

Twinkle Toes  
Via Internet

Dear Twinkle Toes,  
Cut down on expenses and potential problems by using only the amount of light you need. Extra light that shines on the floor or wall is simply wasted. Remember that the plants are small now and must grow a lot to fill the room. It will take many months to fill the entire floor space of the room with three clones. Employ fewer watts to lower your electrical consumption and heat output. Huddle the clones together under a compact fluorescent lamp (CFL) until they're about 1 foot tall, which usually takes three to four weeks. You can purchase a 65-watt CFL for less than \$40 at Home Depot or some other home-improvement store. A single 65-watt CFL will illuminate up to 18 square inches. This works out as follows:  $65 \times 18 = 1,170$ , or 1.17 kilowatt hours (KwH). At the rate you're paying, this amounts to less than \$0.30 a day, and would add about \$9 to your electric bill ( $\$0.30 \times 30 \text{ days} = \$9$ ). Even if you need two 65-watt CFLs, the amount added to your electric bill would be less than \$20 in the first month.

If you want the clones to grow more than 1 foot tall before you induce flowering, they will need more intense light. Add another CFL or a small metal halide (MH) lamp, either 250 or 400 watts. Either lamp will suffice to grow the plants

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Eric E. Sterling,  
The Criminal Justice Policy Foundation



to 2 feet tall. The cost to run a 400-watt lamp for a month at \$0.22 per Kwh is less than \$16 per month (0.4 x 18 hours = 72 Kwh x \$0.22 = \$15.84 for 30 days).

Next, replace the 400-watt MH lamp with a single 600-watt high-pressure sodium (HPS) lamp with an efficient reflective hood. Note that a 600-watt lamp can be placed closer to the plants and illuminate them with almost the same intensity as a 1,000-watt lamp. Induce flowering with a 12/12-hour light schedule. Plants will show signs of flowering in less than two weeks; the first signs will be an elongation between the branches and the appearance of small white "hairs" or pistils. The stems will keep elongating and flowers will continue to form for the next several weeks. Most cannabis strains finish flowering in eight to nine weeks. The cost of running a 600-watt lamp for 12 hours at \$0.22 per Kwh is \$1.584 a day, or \$47.52 a month. Adding everything up, we get:

1 65-watt CFL 30 days = \$9.00

1 400-watt MH 30 days = \$15.84

1 600-watt HPS 60 days = \$95.04

Total = \$119.88 in added electrical costs, spread over the course of four months.

And if it turns out that your plants need more light in the flowering stage, you can simply add the 400-watt lamp.

## APHIDS

I'm growing outdoor plants, and I was wondering how can I fight aphids and keep them from getting on my plants?

E.M.

Via Internet

Dear E.M.,


Aphids are not one of the major pests that attack cannabis plants, either indoors or out. The first step to effective pest control is to identify the perpetrator. Aphids, or plant lice, are about the size of a pinhead and are easy to spot with the naked eye (though you can also use a 10x magnifying glass for better identification). You'll find aphids in all climates where cannabis grows; they're usually grayish to black, but can also be green or even pink. Most aphids have no wings, but those that do have wings that are about four times the size of their body. Look for them on leaf undersides, especially on the new growth of weak or stressed plants. Aphids are usually found in groups, and give birth to mainly female larvae without mating. A healthy aphid can push out up to a hundred live larvae daily. The main signs of aphid infestation are slow growth, yellow and wilting leaves, and a sticky honeydew that will attract ants, who feed on it.

Fortunately, insecticidal soap and pyrethrum-based sprays are very effective against aphids. Apply these two or three times at five- to 10-day intervals and your aphid problem should be easily solved.

## MORTGAGE BROKER TO MEDICAL GROWER

I want to tell you how much you've been helping my family and me. I live in Michigan, a state that just legalized medical marijuana. I started my own grow-room last October. That same month, I shut the doors of my mortgage company and let more than a dozen employees go. This was one of the worst days in my life—I don't fail often, and when I do, it hurts. Even

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Warlock from Magus Genetics is a consistently heavy producer whether grown indoors, outdoors or in a greenhouse.

though factors beyond my control affected the outcome, I know I made mistakes. I just wanted to help people, but the further I got up the ladder, the more I saw how horrible corporate America is. The greed is unreal, and I want no part of that now. I guess things really do happen for a reason.

I'm a poor kid from a trailer park who moved into a corporate office at the age of 27. I've come a long way from the heroin addiction and alcoholism that my parents exposed me to. I will never forget what it means to be sick—truly sick.

I'm married and we just had a baby, and we also have custody of my 11-year-old daughter. I just told her about my love of pot and why I was going to grow it. I was a little nervous about doing so—I still remember the propaganda from the days when I was in school, not to mention how I felt about my mother the more I learned about her and whoever my father was. But my daughter took it very well: She just looked at me and said, "So are you protesting, like the Boston Tea Party?" "Yes, I am," I answered with a big grin, not needing to offer any further explanation.

These days, a friend and I are looking into getting together with others in our state to form the first medical co-op in Michigan.

Thanks again for all the work you've done for me and so many others.

T.F.

Via Internet

Dear T.F.,  
Thanks for your inspiring letter. More true, honest and sincere people like you will help put an end to this crazy war on the innocent people and patients that have used and continue to use this wonderful

plant. These days, we have a new administration and a new Drug Czar who are not using cannabis as a political football. To date, President Obama appears to be more concerned with solving the economic crisis and putting an end to the inequities perpetuated by the Bush administration.

### HOT-WEATHER STRAINS

I'm a first-time grower in Central Florida. I want to start out with six plants. What strain would you recommend? I'll be growing outdoors and indoors on about 10 acres of land in the middle of nowhere. I wish to grow something easy and worthwhile. I'd like to keep my plants indoors at night and outdoors during the day. The temperature around here gets to be about 90°F during the day and 60°F to 70°F at night.

Thanks again from the Sunshine State!

D.W.

Via Internet

Dear D.W.,

Cannabis growth slows to a crawl once the temperature hits 85°F. If you're growing outdoors, find a place with a natural breezeway to keep the temperature a little bit cooler so that your plants will continue growing at a normal clip. Planting in a location with filtered sunlight will also keep them a little cooler. One of the main problems in the tropical and subtropical South is that nighttime temperatures can get so high that plant growth is impaired. Again, a natural breezeway will help overcome this problem if you're growing outdoors. Keep an air-circulation fan going all the time when plants are indoors to keep them cool—but avoid blowing air directly on the plants



or they will dry out quickly and use too much water, causing stress. Plants in your climate grow best during the off-season, when temperatures are a bit cooler.

There are many strains that grow well in hot weather. Chocolate Chunk and SAGE from TH Seeds and Thaitanic from Flying Dutchmen are the first ones that come to mind. You can also check with local growers in your area to see if they have any suggestions.

## AWFUL TRANSPLANTS

I had beautiful seedlings that were 4 to 5 inches tall, with two branch nodes and two healthy-looking leaves. For the next stage, I transplanted them from Dixie cups into pots. What a mistake! They were under fluorescents, and I put them under a 400-watt light. Now they're looking awful. Will they recover?

FleetwoodMac  
Via Internet

Dear FleetwoodMac,

It sounds like the little seedlings are suffering from several kinds of shock, including transplant shock and excessive heat and light. Fluorescents emit much less intense light than a 400-watt MH lamp does. Too much light will heat leaf exteriors and, more importantly, their interiors. This causes the plants' internal chemistry to speed up, which in turn requires them to consume much more water. Also, upon transplanting, the roots were probably jostled around a bit and damaged, so they're not able to supply enough water to keep the plants healthy.

Keep in mind that transplanting is one of the most traumatic events that a plant can suffer. Once transplanted, the roots need time to settle in and get used to the new soil. Roots have thousands of microscopic hairs that are torn away during transplanting. These root hairs often must be regrown, and the plants need time to accustom themselves to their new environment.

The next time you transplant, disturb the root-ball as little as possible. Give your plants plenty of water and use a transplanting aide that contains vitamin B1 to help ease the shock. Give them a few days of fluorescent light and cool temperatures, from 65°F to 70°F, until the leaves perk up and the plants start growing again.

My guess is that your seedlings will recover, but slowly, and they'll be so weak that pests and diseases could easily become a problem. I would plant more seeds and make sure to transplant according to the guidelines above to ensure strong plants in the future. ✨

Jorge Cervantes is the author of Marijuana Grow Basics: The Easy Guide for Cannabis Aficionados (July 2009), Marijuana Horticulture: The Indoor/Outdoor Medical Grower's Bible (January 2006), Jorge Cervantes' Ultimate Grow DVD (shot in BC) and Jorge Cervantes' Ultimate Grow DVD II (shot in Spain), Indoor Marijuana Horticulture: The Indoor Bible, Marijuana Indoors: Five Easy Gardens, Marijuana Outdoors: Guerrilla Growing and Jorge's Rx. He writes for 20 magazines in 10 different languages, including Dutch, English, French, German, Italian, Russian and Spanish. Hit [marijuanagrowing.com](http://marijuanagrowing.com) for more information.



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**GARDEN CALENDAR**

**SEPTEMBER 2009**

**OUTDOORS**

Temperatures have reached abnormal highs and lows in September over the last few years. Global warming is the reason. Growers can benefit from the new highs in some climates by taking harvests later in the season, although northern climates (and some southern climates too) may receive more rain. If this is the case in your area, don't forget to use plastic to keep the moisture from wetting your beautiful buds—this will help stave off botrytis (bud rot) as well. Warm-weather gardens should be shaded if temperatures ascend beyond 85°F in the daytime or at night.

Always be sure to keep your plants well watered until a few days before harvest, especially if September is dry in your area. Withholding water reduces yields.

Stop fertilizing a week or two before harvest so plants don't retain residual nutrient salts. Continue fertilizing with a flowering formula that has less nitrogen and more phosphorus and potassium if you plan to harvest next month.

Use mulch to slow the rate of moisture escaping the soil. Mulch will also attract moisture when the air temperature drops, forming dew in the morning. Keep adding more layers of mulch as the lower layers decay. Anything can be used for mulch—paper, biodegradable plastic, nearby native foliage, etc.—as long as it covers the soil. Pull the mulch back from plant stems a few inches to discourage mice and voles from chewing on them.

Pests and diseases can really take a toll on slow-growing flowering plants late in the season. Mother Nature sends signals that the plants are at the end of their life cycle, and therefore at their weakest point. This means that pests and diseases will be making a final push to eat more, suck more plant sap and lay more eggs. Ask the workers at your local nursery or check with the county extension service for localized pest and disease problems. Corn earworms and molds—especially bud mold—are some of the worst problems that a grower can encounter now.



Here's a shot of an auto-flowering, feminized AK-47 x Lowryder #2 about 30 days from seed. This plant produced almost 2 ounces of dried bud!

Early *indica*-dominant strains are ready to harvest in mid- to late September. Check the buds for peak ripeness: It's worth being patient now in order to harvest your buds when they're completely ripe. But if your plants are a few days from harvest and a big rainstorm is moving in, it's best to harvest before the storm arrives.

Plenty of hunters are out and about in the country now, and many others start scouting the terrain before hunting season starts. Bow and black-powder rifle seasons generally begin before the main hunting season. Be sure to always have a reason to be out walking around in the forest or country now, just in case you cross paths with an inquisitive game warden.

**INDOORS**

Hit [hightimes.com](http://hightimes.com) and look through your collection of HIGH TIMES magazines to find the best grow information. Check out different cannabis forums on the Internet as well as videos posted on YouTube for all the current grow information.

Students head back to school this month after the long summer vacation. Autumn returns most of Middle America to its regular schedule. This means that it's time to crank up the garden lights if you've taken the summer off. Check the bulbs in your lamps for expiration dates and brilliance. Clean old bulbs and reflectors and replace any faint or outdated bulbs. Clean and disinfect any grow equipment that has been sitting idle.

Hot weather is still common outdoors in most of the Northern Hemisphere. But don't let the hot days fool you—nighttime temperatures are often much cooler, and the nights are also longer. Humidity increases quickly when the temperature drops. Counter humidity buildup by turning your lights on at night and off during the daytime. Good ventilation is still necessary as well: Keep the vent fan cranked up as needed and monitor humidity levels daily.

Pesky molds and insects, especially spider mites, can be a big problem this month. They'll be seeking shelter indoors to get out of the inhospitable weather outside. The warm, inviting growroom climate is just what they're looking for, so keeping your growroom clean is the best way to make pests and diseases stay outdoors, where they cause no harm to your garden. Make sure your plants are healthy and free of wounds so that diseases and pests don't have easy entry.

Nutrient and water consumption could change somewhat this month. When outdoor weather cools, plants tend to use less water and more fertilizer. Check the pH and EC (ppm) of the nutrient solution regularly to ensure that it stays in the proper proportions.

Double-check ballasts and fans for noise and excessive heat. Remove the protective shroud on circulation fans to lessen the air resistance and prolong the life of the fan motor. This will also help keep it from overheating, which in turns helps to avert fires! Also, the fan should have plastic blades.

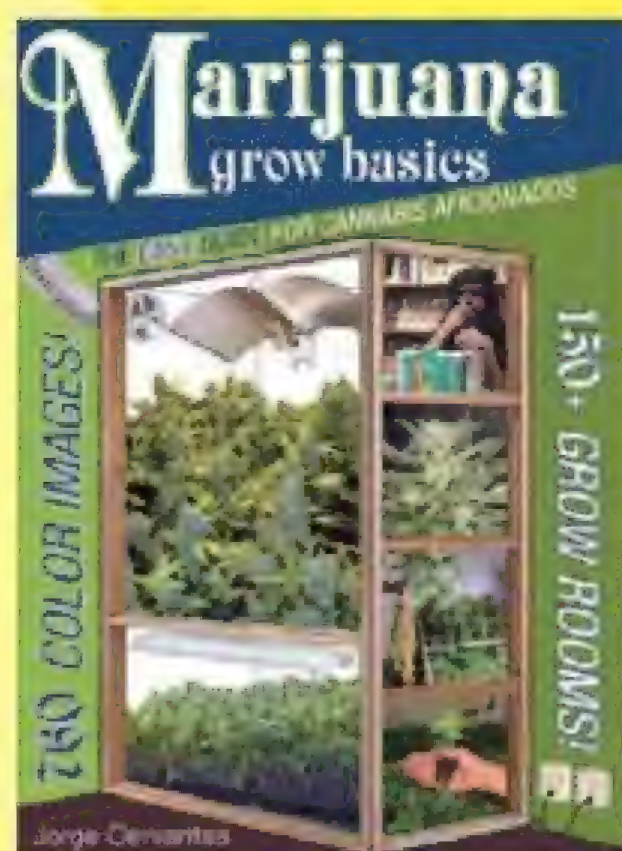
The ideal temperature for your growroom is 75°F during the day and 65°F to 70°F at night. Do your best to keep the room in this range to harvest heavy; plants suffer stress when the temperatures fluctuate much beyond this range. Check the temperature with a thermometer regularly, and keep the humidity at about 50%.

Take clones for your next crop. Grow clones for two to three weeks, at least until they have a strong, healthy root system.

Clean up your growroom and keep it that way! 🌿



# Simple words + Quick photos = Easy success!



## **Marijuana Grow Basics** The EASY Guide for Cannabis Aficionados by Jorge Cervantes

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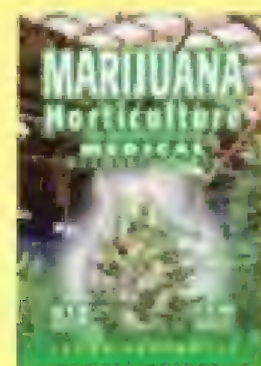
Jorge's simple easy guide shows American, Canadian and European techniques to grow the maximum yield of the most potent cannabis possible—including week-by-week photo-based instructions to grow a 12-week crop from seed and a 10-week crop of clones. Even first timers are guaranteed a heavy harvest!

Become an expert on grow room and internet security, feminized seeds, seedlings, cloning, mother plants, spotting male and female plants early, peak "sinsemilla" harvest, and manicuring, drying and curing your crop for highest potency.

Buy only the grow gear you need—hydroponics and soil, CFL, HID & LED lights, CO<sub>2</sub> meters, fans and filters—to maximize your harvest. Design and set up your grow room with supplies from your local hardware store and garden center. Plus troubleshoot problems and control common pests and diseases!

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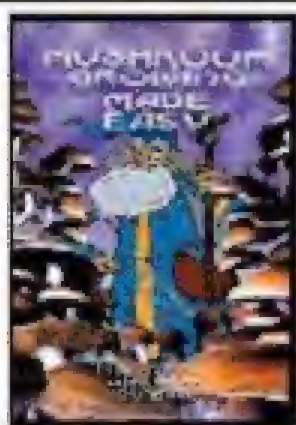
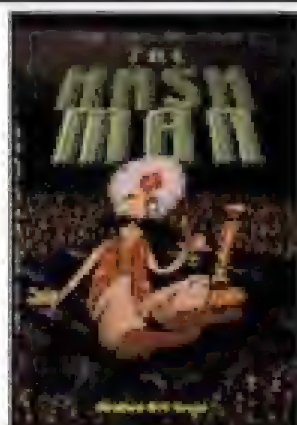
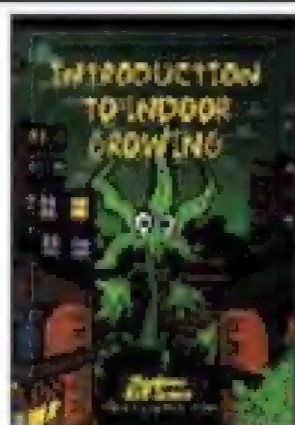
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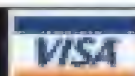
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# NEXT MONTH IN HIGH TIMES



## THE STRAIN COLLECTOR

Some people collect stamps or baseball cards. Nice hobbies, but collecting seeds is better! This month, we cover the pot growers who acquire and cherish quality sensi strains in the form of mother plants, which allows them to flower out cuttings whenever they wish. Take a look inside one cultivator's collection of popular cannabis varieties from around the world.

## CANNABIS CUP PREVIEW, PART I

Growers in Amsterdam are plotting their gardens and planning their entries for the 2009 Cannabis Cup. Cultivation editor Nico Escondido previews the pot that Cannabis Cup judges will be smoking this year. Plus: plenty of info that will get you amped for the 22nd annual event.

## TOP 10 STONER DREAM JOBS

What if you could just take a puff, make a wish and have any pot-related job you wanted? Would you be a medical grower? Dealer to the stars? How about editor-in-chief of HIGH TIMES? Is your dream job high on our exclusive list? Bonus: Find out what it's *really* like to own and run a coffeshop in Amsterdam. Bobby Black goes behind the scenes (and the counter) at Barney's and Amnesia.

## TOP 20 ACTIVISM COLLEGES

It's our annual guide to *higher* education. We rank the top colleges and universities that have made significant contributions to marijuana activism. With a new era of reform lighting up America, these university students are an integral part of the battle to *legalize it*, once and for all!

## YOUR BRAIN ON WEED

Jonah Lehrer is the author of the best-selling book *How We Decide* and arguably the world's first rock-star neuroscientist. Lehrer sits down with HIGH TIMES to discuss cannabis and the brain, including an enlightening discussion of his own personal marijuana use and an explanation of why getting stoned can help you make better decisions.

## BONNAROO BOUND

Phish + Snoop = HIGH TIMES! Next month, experience the highlights from the summer's best festival, including the backstage sessions and late-night jams. *Bonnarooooooooooo!!*

**PLUS:** Hip-hop stoner phenomenon Kid Cuti; the first-ever THC Expo, a convention for cannabis industries and more!

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FRONT

BACK

## STONER GAMES



### STONER CITY

(Above) The game of growers and stoners who buy, sell and trade while running a budding business. \$34.99



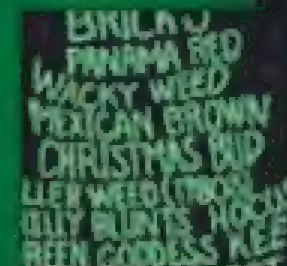
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(Above) Full-color cannabis puzzle comes complete with over 500 pieces. \$19.99

## POSTERS

### POT LEAF POSTER

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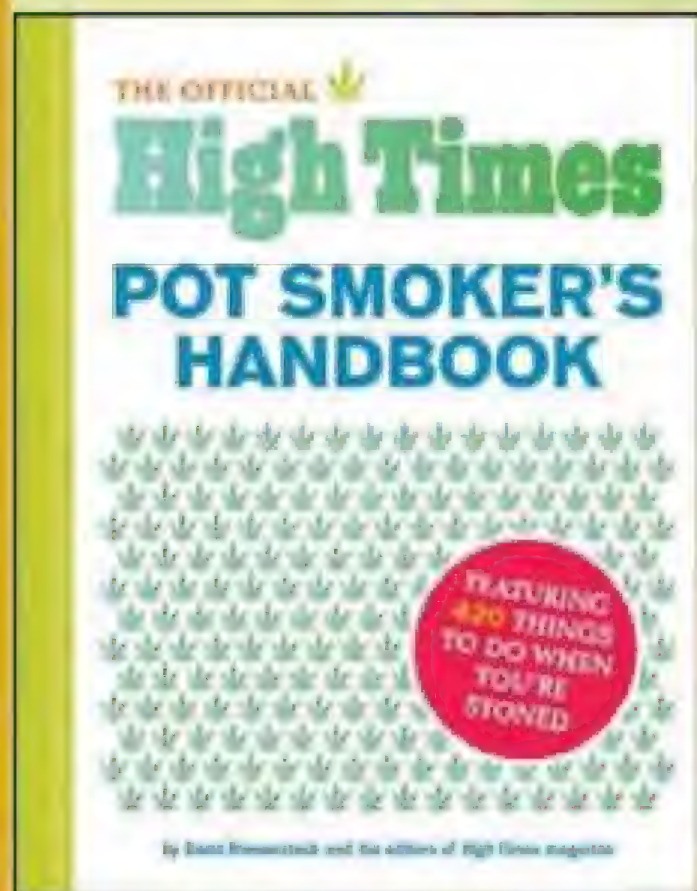




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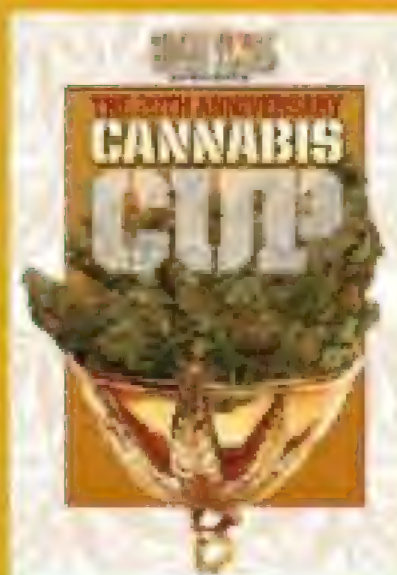
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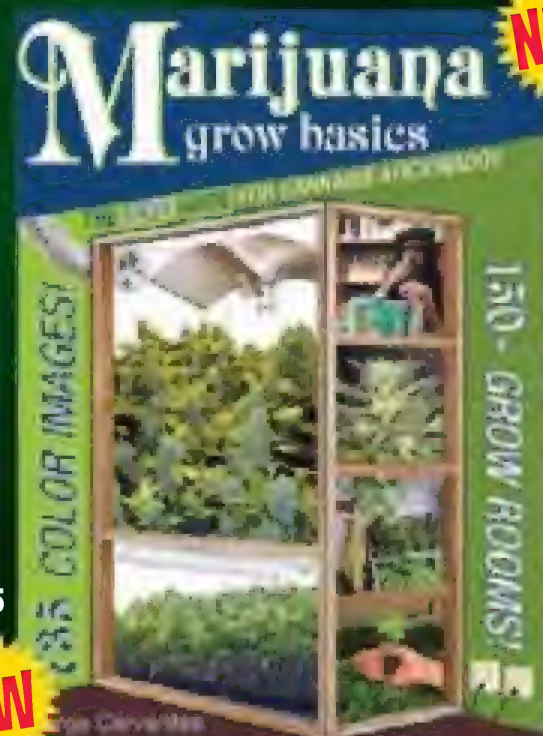


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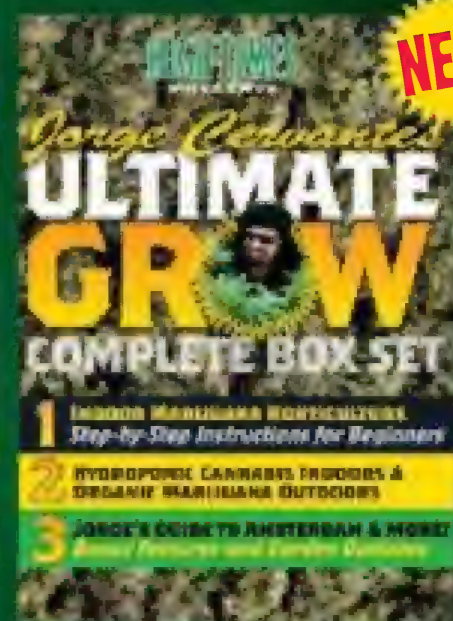
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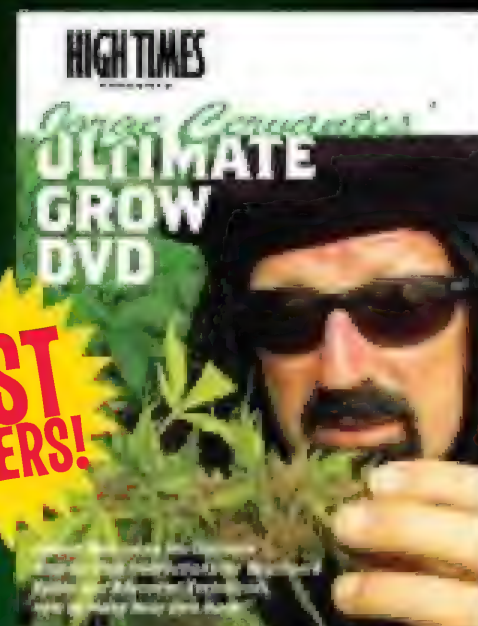
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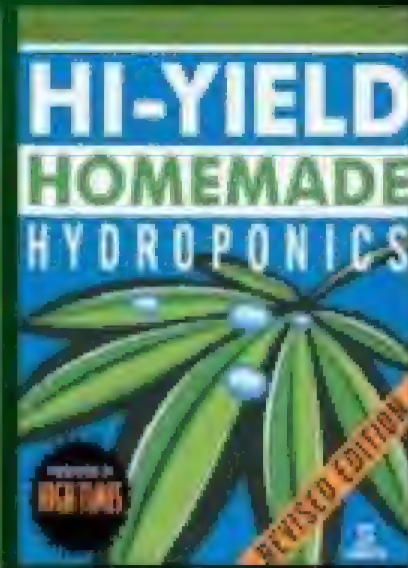
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1

2

3

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10  
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Liberty and VISC photos by Kat in Skunk issues v3#5 & v3#8

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